



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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

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

I-90/94 between Grand Avenue and W. 14th Street

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87557 Longitude: -87.64466  
(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: 0316375058 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: IL

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: I-90/94 at I-290 (Circle Interchange)

Latitude: 41.87557 Longitude: -87.64466

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 2615-1-B01 THROUGH -B03, -B05 THROUGH -B09, AND -B11 WERE SAMPLED ADJACENT TO SITE No. 2615-1. SEE FIGURES 3 AND 5 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75227-1 and 500-75311-1

**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:

6/2/14  
 \_\_\_\_\_  
 Date:



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

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-1  
IDOT I-90/94 ROW

Sample ID	2615-1-B01	2615-1-B02	2615-1-B03-1	2615-1-B03-2	2615-1-B03-3	2615-1-B05	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	0-4	0-8	8-16	16-24	0-4								
Sample Date	4/16/2014	4/16/2014	4/17/2014	4/17/2014	4/17/2014	4/17/2014								
PID	0	0	0	0	0	0								
Sample pH	7.82	7.69	8.56	7.6	7.78	7.57								
Matrix	Soil	Soil	Soil	Soil	Soil	Soil								
<b>Semivolatiles Organic Compounds (mg/kg)</b>														
Benzo(a)anthracene	ND	J 0.018	0.33	ND	ND	0.92	1,2,3,7	0.9	0.9	0.9	1.1	1.8	NA	
Benzo(a)pyrene	ND	J 0.028	0.3	1,2,*	ND	ND	0.89	1,2,*	0.09	0.09	0.98	1.3	2.1	NA
Benzo(b)fluoranthene	ND	ND	0.46	J 0.0083	ND	1.2	1,2,3,7	0.9	0.9	0.9	1.5	2.1	NA	
Dibenzo(a,h)anthracene	J 0.031	J 0.027	0.063	ND	ND	0.18	1,2,3,7	0.09	0.09	0.15	0.2	0.42	NA	

Sample ID	2615-1-B06	2615-1-B07	2615-1-B08-1	2615-1-B08-2	2615-1-B08-3	2615-1-B09-1	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	0-4	0-8	8-16	16-24	0-8										
Sample Date	4/17/2014	4/17/2014	4/16/2014	4/16/2014	4/16/2014	4/17/2014										
PID	0	0	0	0	0	0										
Sample pH	7.64	7.72	7.61	7.72	7.66	7.43										
Matrix	Soil	Soil	Soil	Soil	Soil	Soil										
<b>Semivolatiles Organic Compounds (mg/kg)</b>																
Benzo(a)anthracene	1.1	1,2,3,7	0.59	1.1	1,2,3,7	ND	ND	0.69	0.9	0.9	0.9	1.1	1.8	NA		
Benzo(a)pyrene	1	1,2,3,7	0.52	1,2,*	0.8	1,2,*	ND	ND	0.63	1,2,*	0.09	0.09	0.98	1.3	2.1	NA
Benzo(b)fluoranthene	1.4	1,2,3,7	0.67	B 1	1,2,3,7	ND	ND	0.84	0.9	0.9	0.9	1.5	2.1	NA		
Dibenzo(a,h)anthracene	0.19	1,2,3,7	J 0.1	1,2,*	0.27	1,2,3,4,7	ND	ND	0.11	1,2,*	0.09	0.09	0.15	0.2	0.42	NA

Sample ID	2615-1-B09-2	2615-1-B09-3	2615-1-B09-3 DUP	2615-1-B11-1	2615-1-B11-2	2615-1-B11-3	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)	8-16	16-24	16-24	0-8	8-16	16-24							
Sample Date	4/17/2014	4/17/2014	4/17/2014	4/17/2014	4/17/2014	4/17/2014							
PID	0	0	0	0	0	0							
Sample pH	7.79	7.55	7.6	7.46	7.85	7.63							
Matrix	Soil	Soil	Soil	Soil	Soil	Soil							
<b>Semivolatiles Organic Compounds (mg/kg)</b>													
Benzo(a)anthracene	J 0.015	J 0.01	ND	0.1	ND	ND	0.9	0.9	0.9	0.9	1.1	1.8	NA
Benzo(a)pyrene	J 0.02	ND	ND	0.095	1,2,*	ND	ND	0.09	0.09	0.98	1.3	2.1	NA
Benzo(b)fluoranthene	ND	J 0.011	ND	0.12	ND	ND	0.9	0.9	0.9	0.9	1.5	2.1	NA
Dibenzo(a,h)anthracene	ND	ND	ND	J 0.016	ND	ND	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: 500-75227-1

Client Project/Site: IDOT - I90/94 - WO 061

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

4/30/2014 2:06:29 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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*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 - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B01**

**Lab Sample ID: 500-75227-1**

Date Collected: 04/16/14 13:50

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 74.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0061	0.0026	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Benzene	<0.0061		0.0061	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Bromodichloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Bromoform	<0.0061		0.0061	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Bromomethane	<0.0061	*	0.0061	0.0019	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
2-Butanone (MEK)	<0.0061		0.0061	0.0022	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Carbon disulfide	<0.0061		0.0061	0.00092	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Carbon tetrachloride	<0.0061		0.0061	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Chlorobenzene	<0.0061		0.0061	0.00062	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Chloroethane	<0.0061	*	0.0061	0.0017	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Chloroform	<0.0061		0.0061	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Chloromethane	<0.0061		0.0061	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Dibromochloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
1,1-Dichloroethane	<0.0061		0.0061	0.00097	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
1,2-Dichloroethane	<0.0061		0.0061	0.00091	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
1,1-Dichloroethene	<0.0061		0.0061	0.00099	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
1,2-Dichloropropane	<0.0061		0.0061	0.00093	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
1,3-Dichloropropene, Total	<0.0061		0.0061	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Ethylbenzene	<0.0061		0.0061	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
2-Hexanone	<0.0061		0.0061	0.0018	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Methylene Chloride	<0.0061		0.0061	0.0017	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0016	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Methyl tert-butyl ether	<0.0061		0.0061	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Styrene	<0.0061		0.0061	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
1,1,1,2-Tetrachloroethane	<0.0061		0.0061	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Tetrachloroethene	<0.0061		0.0061	0.00094	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Toluene	<0.0061		0.0061	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.00092	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Trichloroethene	<0.0061		0.0061	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Vinyl acetate	<0.0061		0.0061	0.00096	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Vinyl chloride	<0.0061		0.0061	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1
Xylenes, Total	<0.012		0.012	0.00056	mg/Kg	☼	04/17/14 07:20	04/19/14 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 122	04/17/14 07:20	04/19/14 00:39	1
Dibromofluoromethane	111		75 - 120	04/17/14 07:20	04/19/14 00:39	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/17/14 07:20	04/19/14 00:39	1
Toluene-d8 (Surr)	101		75 - 122	04/17/14 07:20	04/19/14 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.099	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
1,3-Dichlorobenzene	<0.22		0.22	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
1,4-Dichlorobenzene	<0.22		0.22	0.057	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B01**

**Lab Sample ID: 500-75227-1**

**Date Collected: 04/16/14 13:50**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 74.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2-Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Hexachloroethane	<0.22		0.22	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2-Chlorophenol	<0.22		0.22	0.076	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Isophorone	<0.22		0.22	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Hexachlorobutadiene	<0.22		0.22	0.070	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Naphthalene	<0.044		0.044	0.0068	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2,4-Dichlorophenol	<0.44		0.44	0.11	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
4-Chloroaniline	<0.89		0.89	0.21	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Hexachlorocyclopentadiene	<0.89		0.89	0.25	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2-Methylnaphthalene	<0.044		0.044	0.0082	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2-Nitroaniline	<0.22		0.22	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2,6-Dinitrotoluene	<0.22		0.22	0.087	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2-Nitrophenol	<0.44		0.44	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Dimethyl phthalate	<0.22		0.22	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2,4-Dinitrophenol	<0.89		0.89	0.78	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Acenaphthylene	<0.044		0.044	0.0058	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
2,4-Dinitrotoluene	<0.22		0.22	0.070	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Acenaphthene	<0.044		0.044	0.0080	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
4-Nitrophenol	<0.89		0.89	0.42	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
<b>Fluorene</b>	<b>0.027</b>	<b>J</b>	0.044	0.0062	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
4-Nitroaniline	<0.44		0.44	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Hexachlorobenzene	<0.089		0.089	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Diethyl phthalate	<0.22		0.22	0.075	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Pentachlorophenol	<0.89		0.89	0.71	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
N-Nitrosodiphenylamine	<0.22		0.22	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
4,6-Dinitro-2-methylphenol	<0.44		0.44	0.36	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
<b>Phenanthrene</b>	<b>0.083</b>		0.044	0.0062	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Anthracene	<0.044		0.044	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Di-n-butyl phthalate	<0.22		0.22	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
<b>Fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.044	0.0082	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
<b>Pyrene</b>	<b>0.083</b>		0.044	0.0088	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Butyl benzyl phthalate	<0.22		0.22	0.084	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Benzo[a]anthracene	<0.044		0.044	0.0060	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B01**

**Lab Sample ID: 500-75227-1**

**Date Collected: 04/16/14 13:50**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 74.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.044		0.044	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.081	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Di-n-octyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Benzo[b]fluoranthene	<0.044		0.044	0.0096	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Benzo[k]fluoranthene	<0.044		0.044	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
Benzo[a]pyrene	<0.044		0.044	0.0086	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.037</b>	<b>J B</b>	0.044	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
<b>Dibenz(a,h)anthracene</b>	<b>0.031</b>	<b>J</b>	0.044	0.0086	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
<b>Benzo[g,h,i]perylene</b>	<b>0.040</b>	<b>J</b>	0.044	0.014	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1
3 & 4 Methylphenol	<0.22		0.22	0.074	mg/Kg	☼	04/17/14 07:22	04/22/14 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		25 - 110	04/17/14 07:22	04/22/14 02:12	1
Phenol-d5	74		31 - 110	04/17/14 07:22	04/22/14 02:12	1
Nitrobenzene-d5	64		25 - 115	04/17/14 07:22	04/22/14 02:12	1
2-Fluorobiphenyl	83		25 - 119	04/17/14 07:22	04/22/14 02:12	1
2,4,6-Tribromophenol	86		35 - 137	04/17/14 07:22	04/22/14 02:12	1
Terphenyl-d14	221	X	36 - 134	04/17/14 07:22	04/22/14 02:12	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.52	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Arsenic</b>	<b>8.4</b>		0.65	0.13	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Barium</b>	<b>34</b>		0.65	0.069	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Beryllium</b>	<b>0.50</b>		0.26	0.052	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Boron</b>	<b>9.8</b>	<b>B</b>	3.2	0.65	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Cadmium</b>	<b>0.11</b>	<b>J B</b>	0.13	0.016	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Calcium</b>	<b>46000</b>		130	35	mg/Kg	☼	04/18/14 08:30	04/22/14 13:49	10
<b>Chromium</b>	<b>12</b>		0.65	0.075	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Cobalt</b>	<b>16</b>		0.32	0.065	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Copper</b>	<b>34</b>		0.65	0.13	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Iron</b>	<b>17000</b>		13	5.3	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Lead</b>	<b>18</b>		0.32	0.096	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Magnesium</b>	<b>25000</b>		6.5	1.3	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Manganese</b>	<b>340</b>		0.65	0.13	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Nickel</b>	<b>37</b>		0.65	0.13	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Potassium</b>	<b>1700</b>		32	1.9	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Selenium</b>	<b>1.2</b>		0.65	0.23	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Sodium</b>	<b>530</b>		65	8.7	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Thallium</b>	<b>0.50</b>	<b>J</b>	0.65	0.27	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Vanadium</b>	<b>16</b>		0.32	0.048	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1
<b>Zinc</b>	<b>47</b>		1.3	0.26	mg/Kg	☼	04/18/14 08:30	04/18/14 22:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.060</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/21/14 23:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/21/14 23:26	1
<b>Boron</b>	<b>0.97</b>		0.10	0.050	mg/L		04/21/14 07:15	04/21/14 23:26	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B01**

**Lab Sample ID: 500-75227-1**

Date Collected: 04/16/14 13:50

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/21/14 23:26	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:26	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:26	1
<b>Iron</b>	<b>0.28</b>		0.20	0.20	mg/L		04/21/14 07:15	04/21/14 23:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/21/14 23:26	1
<b>Manganese</b>	<b>0.062</b>		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:26	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:26	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/21/14 23:26	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:26	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		04/21/14 07:15	04/21/14 23:26	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		04/21/14 07:15	04/22/14 10:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 10:44	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		04/21/14 16:00	04/22/14 09:38	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	<0.022		0.022	0.0086	mg/Kg	☆	04/22/14 13:25	04/23/14 12:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.82</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B02**

**Lab Sample ID: 500-75227-2**

**Date Collected: 04/16/14 14:00**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Bromomethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Carbon tetrachloride	<0.0046		0.0046	0.00085	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Chloroethane	<0.0046	*	0.0046	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Chloromethane	<0.0046		0.0046	0.00098	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
1,2-Dichloropropane	<0.0046		0.0046	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Vinyl chloride	<0.0046		0.0046	0.00098	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	04/17/14 07:20	04/21/14 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122	04/17/14 07:20	04/21/14 13:00	1
Dibromofluoromethane	111		75 - 120	04/17/14 07:20	04/21/14 13:00	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/17/14 07:20	04/21/14 13:00	1
Toluene-d8 (Surr)	99		75 - 122	04/17/14 07:20	04/21/14 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B02**

**Lab Sample ID: 500-75227-2**

**Date Collected: 04/16/14 14:00**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 82.7**

**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	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
<b>Fluorene</b>	<b>0.022</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
<b>Phenanthrene</b>	<b>0.097</b>		0.039	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
<b>Fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
<b>Pyrene</b>	<b>0.026</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
<b>Benzo[a]anthracene</b>	<b>0.018</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B02**

**Lab Sample ID: 500-75227-2**

**Date Collected: 04/16/14 14:00**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.027</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
<b>Benzo[a]pyrene</b>	<b>0.028</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
<b>Dibenz(a,h)anthracene</b>	<b>0.027</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
<b>Benzo[g,h,i]perylene</b>	<b>0.025</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	04/17/14 07:22	04/22/14 02:30	1
Phenol-d5	61		31 - 110	04/17/14 07:22	04/22/14 02:30	1
Nitrobenzene-d5	57		25 - 115	04/17/14 07:22	04/22/14 02:30	1
2-Fluorobiphenyl	67		25 - 119	04/17/14 07:22	04/22/14 02:30	1
2,4,6-Tribromophenol	84		35 - 137	04/17/14 07:22	04/22/14 02:30	1
Terphenyl-d14	101		36 - 134	04/17/14 07:22	04/22/14 02:30	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Arsenic</b>	<b>6.6</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Barium</b>	<b>24</b>		0.60	0.064	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Beryllium</b>	<b>0.43</b>		0.24	0.048	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Boron</b>	<b>8.8</b>	<b>B</b>	3.0	0.60	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Cadmium</b>	<b>0.058</b>	<b>J B</b>	0.12	0.015	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Calcium</b>	<b>52000</b>		120	33	mg/Kg	☼	04/18/14 08:30	04/22/14 13:53	10
<b>Chromium</b>	<b>11</b>		0.60	0.070	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Cobalt</b>	<b>10</b>		0.30	0.060	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Copper</b>	<b>26</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Iron</b>	<b>15000</b>		12	5.0	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Lead</b>	<b>13</b>		0.30	0.090	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Magnesium</b>	<b>24000</b>		6.0	1.2	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Manganese</b>	<b>270</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Nickel</b>	<b>27</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Potassium</b>	<b>1600</b>		30	1.8	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Selenium</b>	<b>1.1</b>		0.60	0.21	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Sodium</b>	<b>280</b>		60	8.1	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.60	0.25	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Vanadium</b>	<b>12</b>		0.30	0.045	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1
<b>Zinc</b>	<b>34</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:30	04/18/14 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.062</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/21/14 23:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/21/14 23:43	1
<b>Boron</b>	<b>0.90</b>		0.10	0.050	mg/L		04/21/14 07:15	04/21/14 23:43	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B02**

**Lab Sample ID: 500-75227-2**

Date Collected: 04/16/14 14:00

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/21/14 23:43	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:43	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:43	1
<b>Iron</b>	<b>0.29</b>		0.20	0.20	mg/L		04/21/14 07:15	04/21/14 23:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/21/14 23:43	1
<b>Manganese</b>	<b>0.030</b>		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:43	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:43	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/21/14 23:43	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:43	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		04/21/14 07:15	04/21/14 23:43	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		04/21/14 07:15	04/22/14 10:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 10:55	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		04/21/14 16:00	04/22/14 09:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.018	0.0070	mg/Kg	☆	04/22/14 13:25	04/23/14 12:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.69</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-1**

**Lab Sample ID: 500-75227-3**

**Date Collected: 04/16/14 14:35**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 76.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0066		0.0066	0.0028	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Benzene	<0.0066		0.0066	0.00090	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Bromodichloromethane	<0.0066		0.0066	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Bromoform	<0.0066		0.0066	0.0015	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Bromomethane	<0.0066	*	0.0066	0.0020	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
2-Butanone (MEK)	<0.0066		0.0066	0.0024	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Carbon disulfide	<0.0066		0.0066	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Carbon tetrachloride	<0.0066		0.0066	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Chlorobenzene	<0.0066		0.0066	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Chloroethane	<0.0066	*	0.0066	0.0018	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Chloroform	<0.0066		0.0066	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Chloromethane	<0.0066		0.0066	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
cis-1,2-Dichloroethene	<0.0066		0.0066	0.00093	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
cis-1,3-Dichloropropene	<0.0066		0.0066	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Dibromochloromethane	<0.0066		0.0066	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
1,1-Dichloroethane	<0.0066		0.0066	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
1,2-Dichloroethane	<0.0066		0.0066	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
1,1-Dichloroethene	<0.0066		0.0066	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
1,2-Dichloropropane	<0.0066		0.0066	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
1,3-Dichloropropene, Total	<0.0066		0.0066	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Ethylbenzene	<0.0066		0.0066	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
2-Hexanone	<0.0066		0.0066	0.0019	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Methylene Chloride	<0.0066		0.0066	0.0018	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
4-Methyl-2-pentanone (MIBK)	<0.0066		0.0066	0.0017	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Methyl tert-butyl ether	<0.0066		0.0066	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Styrene	<0.0066		0.0066	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
1,1,2,2-Tetrachloroethane	<0.0066		0.0066	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Tetrachloroethene	<0.0066		0.0066	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Toluene	<0.0066		0.0066	0.00092	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
trans-1,2-Dichloroethene	<0.0066		0.0066	0.00091	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
trans-1,3-Dichloropropene	<0.0066		0.0066	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
1,1,1-Trichloroethane	<0.0066		0.0066	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
1,1,2-Trichloroethane	<0.0066		0.0066	0.00090	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Trichloroethene	<0.0066		0.0066	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Vinyl acetate	<0.0066		0.0066	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Vinyl chloride	<0.0066		0.0066	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1
Xylenes, Total	<0.013		0.013	0.00060	mg/Kg	☼	04/17/14 07:20	04/19/14 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 122	04/17/14 07:20	04/19/14 01:24	1
Dibromofluoromethane	109		75 - 120	04/17/14 07:20	04/19/14 01:24	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	04/17/14 07:20	04/19/14 01:24	1
Toluene-d8 (Surr)	97		75 - 122	04/17/14 07:20	04/19/14 01:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<1.1		1.1	0.47	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Bis(2-chloroethyl)ether	<1.1		1.1	0.31	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
1,3-Dichlorobenzene	<1.1		1.1	0.24	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
1,4-Dichlorobenzene	<1.1		1.1	0.27	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-1**

**Lab Sample ID: 500-75227-3**

Date Collected: 04/16/14 14:35

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.1		1.1	0.25	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2-Methylphenol	<1.1		1.1	0.34	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2,2'-oxybis[1-chloropropane]	<1.1		1.1	0.24	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
N-Nitrosodi-n-propylamine	<1.1		1.1	0.26	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Hexachloroethane	<1.1		1.1	0.32	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2-Chlorophenol	<1.1		1.1	0.36	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Nitrobenzene	<0.21		0.21	0.052	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Bis(2-chloroethoxy)methane	<1.1		1.1	0.21	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
1,2,4-Trichlorobenzene	<1.1		1.1	0.23	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Isophorone	<1.1		1.1	0.24	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2,4-Dimethylphenol	<2.1		2.1	0.80	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Hexachlorobutadiene	<1.1		1.1	0.33	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Naphthalene</b>	<b>0.045</b>	<b>J</b>	0.21	0.032	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2,4-Dichlorophenol	<2.1		2.1	0.50	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
4-Chloroaniline	<4.2		4.2	0.99	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2,4,6-Trichlorophenol	<2.1		2.1	0.72	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2,4,5-Trichlorophenol	<2.1		2.1	0.48	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Hexachlorocyclopentadiene	<4.2		4.2	1.2	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2-Methylnaphthalene	<0.21		0.21	0.039	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2-Nitroaniline	<1.1		1.1	0.28	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2-Chloronaphthalene	<1.1		1.1	0.23	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
4-Chloro-3-methylphenol	<2.1		2.1	0.71	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2,6-Dinitrotoluene	<1.1		1.1	0.41	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2-Nitrophenol	<2.1		2.1	0.50	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
3-Nitroaniline	<2.1		2.1	0.65	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Dimethyl phthalate	<1.1		1.1	0.27	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2,4-Dinitrophenol	<4.2		4.2	3.7	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Acenaphthylene</b>	<b>0.087</b>	<b>J</b>	0.21	0.028	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
2,4-Dinitrotoluene	<1.1		1.1	0.33	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Acenaphthene</b>	<b>0.063</b>	<b>J</b>	0.21	0.038	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Dibenzofuran	<1.1		1.1	0.25	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
4-Nitrophenol	<4.2		4.2	2.0	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Fluorene</b>	<b>0.16</b>	<b>J</b>	0.21	0.030	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
4-Nitroaniline	<2.1		2.1	0.88	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
4-Bromophenyl phenyl ether	<1.1		1.1	0.28	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Hexachlorobenzene	<0.42		0.42	0.049	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Diethyl phthalate	<1.1		1.1	0.36	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
4-Chlorophenyl phenyl ether	<1.1		1.1	0.25	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Pentachlorophenol	<4.2		4.2	3.4	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
N-Nitrosodiphenylamine	<1.1		1.1	0.25	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
4,6-Dinitro-2-methylphenol	<2.1		2.1	1.7	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Phenanthrene</b>	<b>1.0</b>		0.21	0.029	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Anthracene</b>	<b>0.23</b>		0.21	0.035	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Carbazole	<1.1		1.1	0.54	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Di-n-butyl phthalate	<1.1		1.1	0.32	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Fluoranthene</b>	<b>1.8</b>		0.21	0.039	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Pyrene</b>	<b>1.7</b>		0.21	0.042	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Butyl benzyl phthalate	<1.1		1.1	0.40	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Benzo[a]anthracene</b>	<b>1.1</b>		0.21	0.028	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-1**

**Lab Sample ID: 500-75227-3**

Date Collected: 04/16/14 14:35

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>1.1</b>		0.21	0.057	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
3,3'-Dichlorobenzidine	<1.1		1.1	0.29	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Bis(2-ethylhexyl) phthalate	<1.1		1.1	0.38	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
Di-n-octyl phthalate	<1.1		1.1	0.34	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Benzo[b]fluoranthene</b>	<b>1.0</b>	<b>B</b>	0.21	0.045	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Benzo[k]fluoranthene</b>	<b>0.41</b>		0.21	0.062	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Benzo[a]pyrene</b>	<b>0.80</b>		0.21	0.041	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.50</b>	<b>B</b>	0.21	0.054	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Dibenz(a,h)anthracene</b>	<b>0.27</b>		0.21	0.041	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Benzo[g,h,i]perylene</b>	<b>0.64</b>		0.21	0.068	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
3 & 4 Methylphenol	<1.1		1.1	0.35	mg/Kg	☼	04/17/14 07:22	04/23/14 20:58	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	52		25 - 110				04/17/14 07:22	04/23/14 20:58	5
Phenol-d5	53		31 - 110				04/17/14 07:22	04/23/14 20:58	5
Nitrobenzene-d5	48		25 - 115				04/17/14 07:22	04/23/14 20:58	5
2-Fluorobiphenyl	53		25 - 119				04/17/14 07:22	04/23/14 20:58	5
2,4,6-Tribromophenol	85		35 - 137				04/17/14 07:22	04/23/14 20:58	5
Terphenyl-d14	72		36 - 134				04/17/14 07:22	04/23/14 20:58	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.51</b>	<b>J</b>	1.2	0.50	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Arsenic</b>	<b>5.2</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Barium</b>	<b>120</b>		0.62	0.066	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Beryllium</b>	<b>0.39</b>		0.25	0.049	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Boron</b>	<b>7.0</b>	<b>B</b>	3.1	0.62	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Cadmium</b>	<b>0.63</b>	<b>B</b>	0.12	0.016	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Calcium</b>	<b>25000</b>		12	3.3	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Chromium</b>	<b>14</b>		0.62	0.072	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Cobalt</b>	<b>6.0</b>		0.31	0.062	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Copper</b>	<b>54</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Iron</b>	<b>10000</b>		12	5.1	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Lead</b>	<b>170</b>		0.31	0.092	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Magnesium</b>	<b>11000</b>		6.2	1.3	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Manganese</b>	<b>240</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Nickel</b>	<b>13</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Potassium</b>	<b>1100</b>		31	1.9	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Selenium</b>	<b>0.78</b>		0.62	0.22	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Silver</b>	<b>0.10</b>	<b>J</b>	0.31	0.022	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Sodium</b>	<b>250</b>		62	8.3	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Vanadium</b>	<b>13</b>		0.31	0.046	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1
<b>Zinc</b>	<b>140</b>		1.2	0.25	mg/Kg	☼	04/18/14 08:30	04/18/14 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		04/29/14 09:00	04/29/14 18:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-1**

**Lab Sample ID: 500-75227-3**

Date Collected: 04/16/14 14:35

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/21/14 23:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/21/14 23:47	1
<b>Boron</b>	<b>0.82</b>		0.10	0.050	mg/L		04/21/14 07:15	04/21/14 23:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/21/14 23:47	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:47	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:47	1
<b>Iron</b>	<b>1.8</b>		0.20	0.20	mg/L		04/21/14 07:15	04/21/14 23:47	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		04/21/14 07:15	04/21/14 23:47	1
<b>Manganese</b>	<b>0.085</b>		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:47	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:47	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/21/14 23:47	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:47	1
<b>Zinc</b>	<b>0.18</b>		0.10	0.020	mg/L		04/21/14 07:15	04/21/14 23:47	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		04/21/14 07:15	04/22/14 10:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00022</b>		0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 09:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.43</b>		0.021	0.0082	mg/Kg	✱	04/22/14 13:25	04/23/14 12:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.61</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-2**

**Lab Sample ID: 500-75227-4**

**Date Collected: 04/16/14 14:40**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 80.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0048	0.0021	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Bromomethane	<0.0048	*	0.0048	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	04/17/14 07:20	04/19/14 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 122	04/17/14 07:20	04/19/14 01:47	1
Dibromofluoromethane	115		75 - 120	04/17/14 07:20	04/19/14 01:47	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/17/14 07:20	04/19/14 01:47	1
Toluene-d8 (Surr)	104		75 - 122	04/17/14 07:20	04/19/14 01:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-2**

**Lab Sample ID: 500-75227-4**

**Date Collected: 04/16/14 14:40**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 80.3**

**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	☼	04/17/14 07:22	04/22/14 03:04	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
<b>2-Methylnaphthalene</b>	<b>0.019</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
<b>Fluorene</b>	<b>0.022</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
<b>Phenanthrene</b>	<b>0.078</b>		0.040	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
<b>Anthracene</b>	<b>0.0067</b>	<b>J</b>	0.040	0.0066	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
<b>Fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
<b>Pyrene</b>	<b>0.028</b>	<b>J</b>	0.040	0.0079	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-2**

**Lab Sample ID: 500-75227-4**

Date Collected: 04/16/14 14:40

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
<b>Benzo[g,h,i]perylene</b>	<b>0.022</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 03:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	66		25 - 110				04/17/14 07:22	04/22/14 03:04	1
Phenol-d5	60		31 - 110				04/17/14 07:22	04/22/14 03:04	1
Nitrobenzene-d5	55		25 - 115				04/17/14 07:22	04/22/14 03:04	1
2-Fluorobiphenyl	70		25 - 119				04/17/14 07:22	04/22/14 03:04	1
2,4,6-Tribromophenol	83		35 - 137				04/17/14 07:22	04/22/14 03:04	1
Terphenyl-d14	189	X	36 - 134				04/17/14 07:22	04/22/14 03:04	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	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Arsenic</b>	<b>6.4</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Barium</b>	<b>26</b>		0.60	0.065	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Beryllium</b>	<b>0.47</b>		0.24	0.048	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Boron</b>	<b>8.1</b>	<b>B</b>	3.0	0.60	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Cadmium</b>	<b>0.089</b>	<b>J B</b>	0.12	0.015	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Calcium</b>	<b>31000</b>		12	3.3	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Chromium</b>	<b>12</b>		0.60	0.070	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Cobalt</b>	<b>12</b>		0.30	0.060	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Copper</b>	<b>32</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Iron</b>	<b>16000</b>		12	5.0	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Lead</b>	<b>14</b>		0.30	0.090	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Magnesium</b>	<b>17000</b>		6.0	1.2	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Manganese</b>	<b>240</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Nickel</b>	<b>32</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Potassium</b>	<b>1600</b>		30	1.8	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Selenium</b>	<b>1.1</b>		0.60	0.21	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Silver</b>	<b>0.030</b>	<b>J</b>	0.30	0.022	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Sodium</b>	<b>190</b>		60	8.1	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Thallium</b>	<b>0.41</b>	<b>J</b>	0.60	0.26	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Vanadium</b>	<b>12</b>		0.30	0.045	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1
<b>Zinc</b>	<b>48</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:30	04/18/14 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.052</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/21/14 23:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/21/14 23:51	1
<b>Boron</b>	<b>0.77</b>		0.10	0.050	mg/L		04/21/14 07:15	04/21/14 23:51	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-2**

**Lab Sample ID: 500-75227-4**

Date Collected: 04/16/14 14:40

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/21/14 23:51	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:51	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:51	1
<b>Iron</b>	<b>0.26</b>		0.20	0.20	mg/L		04/21/14 07:15	04/21/14 23:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/21/14 23:51	1
<b>Manganese</b>	<b>0.037</b>		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:51	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:51	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/21/14 23:51	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:51	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		04/21/14 07:15	04/21/14 23:51	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		04/21/14 07:15	04/22/14 11:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:00	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		04/21/14 16:00	04/22/14 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.011</b>	<b>J</b>	0.018	0.0071	mg/Kg	☆	04/22/14 13:25	04/23/14 12:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.72</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-3**

**Lab Sample ID: 500-75227-5**

**Date Collected: 04/16/14 14:45**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 78.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.34		0.34	0.088	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Benzene	<0.017		0.017	0.0050	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Bromodichloromethane	<0.14		0.14	0.023	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Bromoform	<0.14		0.14	0.030	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Bromomethane	<0.14		0.14	0.046	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
2-Butanone (MEK)	<0.34		0.34	0.10	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Carbon disulfide	<0.34		0.34	0.029	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Carbon tetrachloride	<0.068		0.068	0.017	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Chlorobenzene	<0.068		0.068	0.0097	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Chloroethane	<0.14		0.14	0.029	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Chloroform	<0.068		0.068	0.014	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Chloromethane	<0.14		0.14	0.031	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
cis-1,2-Dichloroethene	<0.068		0.068	0.0083	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
cis-1,3-Dichloropropene	<0.068		0.068	0.012	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Dibromochloromethane	<0.14		0.14	0.023	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
1,1-Dichloroethane	<0.068		0.068	0.013	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
1,2-Dichloroethane	<0.068		0.068	0.019	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
1,1-Dichloroethene	<0.068		0.068	0.021	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
1,2-Dichloropropane	<0.068		0.068	0.013	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
1,3-Dichloropropene, Total	<0.068		0.068	0.012	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Ethylbenzene	<0.017		0.017	0.0085	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
2-Hexanone	<0.34		0.34	0.038	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Methylene Chloride	<0.34		0.34	0.046	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
4-Methyl-2-pentanone (MIBK)	<0.34		0.34	0.022	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Methyl tert-butyl ether	<0.14		0.14	0.029	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Styrene	<0.068		0.068	0.0067	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
1,1,2,2-Tetrachloroethane	<0.068		0.068	0.016	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Tetrachloroethene	<0.068		0.068	0.011	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Toluene	<0.017		0.017	0.0078	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
trans-1,2-Dichloroethene	<0.068		0.068	0.017	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
trans-1,3-Dichloropropene	<0.068	*	0.068	0.014	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
1,1,1-Trichloroethane	<0.068		0.068	0.014	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
1,1,2-Trichloroethane	<0.068		0.068	0.019	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Trichloroethene	<0.034		0.034	0.013	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Vinyl acetate	<0.14		0.14	0.023	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Vinyl chloride	<0.017		0.017	0.0070	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50
Xylenes, Total	<0.034		0.034	0.0046	mg/Kg	☼	04/16/14 14:45	04/25/14 04:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 120	04/16/14 14:45	04/25/14 04:11	50
Dibromofluoromethane	87		75 - 120	04/16/14 14:45	04/25/14 04:11	50
1,2-Dichloroethane-d4 (Surr)	94		75 - 125	04/16/14 14:45	04/25/14 04:11	50
Toluene-d8 (Surr)	88		75 - 120	04/16/14 14:45	04/25/14 04:11	50

**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	☼	04/17/14 07:22	04/22/14 03:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-3**

**Lab Sample ID: 500-75227-5**

Date Collected: 04/16/14 14:45

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 78.8

**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	☼	04/17/14 07:22	04/22/14 03:21	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>Naphthalene</b>	<b>0.018</b>	<b>J</b>	0.040	0.0061	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>2-Methylnaphthalene</b>	<b>0.060</b>		0.040	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>Acenaphthylene</b>	<b>0.011</b>	<b>J</b>	0.040	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>Acenaphthene</b>	<b>0.017</b>	<b>J</b>	0.040	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>Fluorene</b>	<b>0.025</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>Phenanthrene</b>	<b>0.16</b>		0.040	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>Fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>Pyrene</b>	<b>0.032</b>	<b>J</b>	0.040	0.0079	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-3**

**Lab Sample ID: 500-75227-5**

Date Collected: 04/16/14 14:45

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.046</b>		0.040	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
<b>Benzo[g,h,i]perylene</b>	<b>0.032</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	04/17/14 07:22	04/22/14 03:21	1
Phenol-d5	62		31 - 110	04/17/14 07:22	04/22/14 03:21	1
Nitrobenzene-d5	55		25 - 115	04/17/14 07:22	04/22/14 03:21	1
2-Fluorobiphenyl	73		25 - 119	04/17/14 07:22	04/22/14 03:21	1
2,4,6-Tribromophenol	68		35 - 137	04/17/14 07:22	04/22/14 03:21	1
Terphenyl-d14	99		36 - 134	04/17/14 07:22	04/22/14 03:21	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Arsenic</b>	<b>7.7</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Barium</b>	<b>29</b>		0.62	0.066	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Beryllium</b>	<b>0.61</b>		0.25	0.049	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Boron</b>	<b>10</b>	<b>B</b>	3.1	0.62	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Cadmium</b>	<b>0.10</b>	<b>J B</b>	0.12	0.016	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Calcium</b>	<b>30000</b>		12	3.4	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Chromium</b>	<b>13</b>		0.62	0.072	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Cobalt</b>	<b>14</b>		0.31	0.062	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Copper</b>	<b>33</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Iron</b>	<b>17000</b>		12	5.1	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Lead</b>	<b>16</b>		0.31	0.092	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Magnesium</b>	<b>17000</b>		6.2	1.3	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Manganese</b>	<b>240</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Nickel</b>	<b>35</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Potassium</b>	<b>2000</b>		31	1.9	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Selenium</b>	<b>1.0</b>		0.62	0.22	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Sodium</b>	<b>150</b>		62	8.3	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Thallium</b>	<b>0.57</b>	<b>J</b>	0.62	0.26	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Vanadium</b>	<b>14</b>		0.31	0.046	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1
<b>Zinc</b>	<b>50</b>		1.2	0.25	mg/Kg	☼	04/18/14 08:30	04/18/14 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.057</b>	<b>J</b>	0.50	0.050	mg/L	☼	04/21/14 07:15	04/21/14 23:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	☼	04/21/14 07:15	04/21/14 23:55	1
<b>Boron</b>	<b>0.81</b>		0.10	0.050	mg/L	☼	04/21/14 07:15	04/21/14 23:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

**Client Sample ID: 2615-1-B08-3**

**Lab Sample ID: 500-75227-5**

Date Collected: 04/16/14 14:45

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/21/14 23:55	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:55	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:55	1
<b>Iron</b>	<b>0.28</b>		0.20	0.20	mg/L		04/21/14 07:15	04/21/14 23:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/21/14 23:55	1
<b>Manganese</b>	<b>0.034</b>		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:55	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:55	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/21/14 23:55	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/21/14 23:55	1
<b>Zinc</b>	<b>0.029 J</b>		0.10	0.020	mg/L		04/21/14 07:15	04/21/14 23:55	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		04/21/14 07:15	04/22/14 11:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:03	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		04/21/14 16:00	04/22/14 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.021	0.0082	mg/Kg	☆	04/22/14 13:25	04/23/14 12:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.66</b>		0.200	0.200	SU			04/22/14 16:00	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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.
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
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.
F1	MS and/or MSD Recovery exceeds the 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
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

<b>Client:</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory:</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> <u>2014 Chicago Cook</u> <b>Project No.:</b> <u>idot 2013-061</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 <b>Sampler:</b> <u>CF</u>	<b>COC No.:</b> <u>1</u> of <u>1</u> <b>Lab Job No.:</b> <u>500-75227</u> <b>Sample Temp.:</b> <u>(4.2)(3.8)(3.5)</u>
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**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

**Matrix Key:**  
 W: Water  
 S: Soil  
 SL: Sludge  
 S: Sediment  
 L: Leachate  
 DW: Drinking Water  
 OL: Oil  
 O: Other

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
1	2615-1-B01	4/16	1:50	Soil	X	X					X	X	X	X		0-4
2	2615-1-B02	↓	2:00	↓	↓	↓					↓	↓	↓	↓		0-4
3	2615-1-B08-1	↓	2:35	↓	↓	↓					↓	↓	↓	↓		0-8
4	2615-1-B08-2	↓	2:40	↓	↓	↓					↓	↓	↓	↓		8-16
5	2615-1-B08-3	↓	2:45	↓	↓	↓					↓	↓	↓	↓		10-201

Relinquished by:	Date/Time: <u>4/16/14 1530</u>	Received by:	Date/Time: <u>4/16/14 1530</u>
Relinquished by:	Date/Time: <u>4/16/14 1808</u>	Received by:	Date/Time: <u>4/17/14 0630</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

# 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: 500-75311-1  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
5/5/2014 2:46:53 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-1**

**Lab Sample ID: 500-75311-1**

**Date Collected: 04/17/14 14:00**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 85.5**

**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	☼	04/18/14 07:35	04/23/14 12:59	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	04/18/14 07:35	04/23/14 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	04/18/14 07:35	04/23/14 12:59	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/23/14 12:59	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/18/14 07:35	04/23/14 12:59	1
Toluene-d8 (Surr)	105		75 - 122	04/18/14 07:35	04/23/14 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-1**

**Lab Sample ID: 500-75311-1**

**Date Collected: 04/17/14 14:00**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 85.5**

**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	0.045	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Naphthalene</b>	<b>0.0097</b>	<b>J</b>	0.038	0.0058	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>2-Methylnaphthalene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Acenaphthylene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0050	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Acenaphthene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0068	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Fluorene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Phenanthrene</b>	<b>0.37</b>		0.038	0.0053	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Anthracene</b>	<b>0.071</b>		0.038	0.0063	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Fluoranthene</b>	<b>0.44</b>		0.038	0.0070	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Pyrene</b>	<b>0.62</b>		0.038	0.0075	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Benzo[a]anthracene</b>	<b>0.33</b>		0.038	0.0051	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-1**

**Lab Sample ID: 500-75311-1**

Date Collected: 04/17/14 14:00

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.37</b>		0.038	0.010	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.070</b>	<b>J</b>	0.19	0.069	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Benzo[b]fluoranthene</b>	<b>0.46</b>		0.038	0.0082	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Benzo[k]fluoranthene</b>	<b>0.18</b>		0.038	0.011	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Benzo[a]pyrene</b>	<b>0.30</b>		0.038	0.0073	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.20</b>		0.038	0.0098	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Dibenz(a,h)anthracene</b>	<b>0.063</b>		0.038	0.0073	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
<b>Benzo[g,h,i]perylene</b>	<b>0.27</b>		0.038	0.012	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:01	04/26/14 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	04/22/14 07:01	04/26/14 20:49	1
Phenol-d5	66		31 - 110	04/22/14 07:01	04/26/14 20:49	1
Nitrobenzene-d5	52		25 - 115	04/22/14 07:01	04/26/14 20:49	1
2-Fluorobiphenyl	65		25 - 119	04/22/14 07:01	04/26/14 20:49	1
2,4,6-Tribromophenol	65		35 - 137	04/22/14 07:01	04/26/14 20:49	1
Terphenyl-d14	80		36 - 134	04/22/14 07:01	04/26/14 20:49	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.77</b>	<b>J</b>	1.1	0.44	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Arsenic</b>	<b>6.0</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Barium</b>	<b>63</b>		0.55	0.059	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Beryllium</b>	<b>0.47</b>		0.22	0.044	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Boron</b>	<b>9.4</b>		2.7	0.55	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Cadmium</b>	<b>0.64</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Calcium</b>	<b>79000</b>		110	30	mg/Kg	☼	04/21/14 09:10	04/23/14 01:52	10
<b>Chromium</b>	<b>18</b>		0.55	0.063	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Cobalt</b>	<b>8.3</b>		0.27	0.055	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Copper</b>	<b>44</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Iron</b>	<b>13000</b>		11	4.5	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Lead</b>	<b>71</b>		0.27	0.082	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Magnesium</b>	<b>36000</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Manganese</b>	<b>310</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Nickel</b>	<b>23</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Potassium</b>	<b>1300</b>		27	1.6	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Selenium</b>	<b>0.85</b>		0.55	0.19	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Sodium</b>	<b>710</b>		55	7.3	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Vanadium</b>	<b>14</b>		0.27	0.040	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1
<b>Zinc</b>	<b>200</b>		1.1	0.22	mg/Kg	☼	04/21/14 09:10	04/22/14 00:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>0.23</b>		0.20	0.20	mg/L		04/28/14 07:30	04/29/14 15:27	1
<b>Lead</b>	<b>0.0087</b>		0.0075	0.0075	mg/L		04/28/14 07:30	04/28/14 17:33	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 17:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-1**

**Lab Sample ID: 500-75311-1**

Date Collected: 04/17/14 14:00

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.013	J	0.025	0.010	mg/L		04/28/14 07:30	04/28/14 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J B	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 17:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 17:18	1
Boron	0.22	J B	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 17:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 17:18	1
Chromium	0.081		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:18	1
Cobalt	0.033		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:18	1
Iron	69		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 17:18	1
Lead	0.27		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 17:18	1
Manganese	0.50		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:18	1
Nickel	0.11		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:18	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 17:18	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:18	1
Zinc	0.53	B	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		04/28/14 07:30	04/29/14 10:16	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		04/21/14 15:00	04/22/14 14:42	1
Thallium	0.0021		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 10:39	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	0.068		0.018	0.0069	mg/Kg	☼	04/24/14 14:24	04/28/14 09:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			04/25/14 14:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-2**

**Lab Sample ID: 500-75311-2**

**Date Collected: 04/17/14 14:05**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 83.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0072		0.0045	0.0019	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Bromomethane	<0.0045	*	0.0045	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	04/18/14 07:35	04/22/14 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 122	04/18/14 07:35	04/22/14 16:39	1
Dibromofluoromethane	113		75 - 120	04/18/14 07:35	04/22/14 16:39	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/18/14 07:35	04/22/14 16:39	1
Toluene-d8 (Surr)	101		75 - 122	04/18/14 07:35	04/22/14 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-2**

**Lab Sample ID: 500-75311-2**

Date Collected: 04/17/14 14:05

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 83.8

**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	0.045	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
<b>2-Methylnaphthalene</b>	<b>0.024</b>	<b>J</b>	0.037	0.0069	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
<b>Acenaphthene</b>	<b>0.0088</b>	<b>J</b>	0.037	0.0067	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
<b>Phenanthrene</b>	<b>0.095</b>		0.037	0.0052	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-2**

**Lab Sample ID: 500-75311-2**

Date Collected: 04/17/14 14:05

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
<b>Benzo[b]fluoranthene</b>	<b>0.0083</b>	<b>J</b>	0.037	0.0081	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J</b>	0.037	0.012	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/22/14 07:01	04/29/14 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		25 - 110	04/22/14 07:01	04/29/14 17:36	1
Phenol-d5	66		31 - 110	04/22/14 07:01	04/29/14 17:36	1
Nitrobenzene-d5	62		25 - 115	04/22/14 07:01	04/29/14 17:36	1
2-Fluorobiphenyl	66		25 - 119	04/22/14 07:01	04/29/14 17:36	1
2,4,6-Tribromophenol	46		35 - 137	04/22/14 07:01	04/29/14 17:36	1
Terphenyl-d14	85		36 - 134	04/22/14 07:01	04/29/14 17:36	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Arsenic</b>	<b>6.7</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Barium</b>	<b>29</b>		0.58	0.062	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Beryllium</b>	<b>0.48</b>		0.23	0.046	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Boron</b>	<b>11</b>		2.9	0.58	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Cadmium</b>	<b>0.25</b>	<b>B</b>	0.12	0.015	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Calcium</b>	<b>67000</b>		120	32	mg/Kg	☼	04/21/14 09:10	04/23/14 02:19	10
<b>Chromium</b>	<b>12</b>		0.58	0.067	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Cobalt</b>	<b>11</b>		0.29	0.058	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Copper</b>	<b>23</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Iron</b>	<b>15000</b>		12	4.8	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Lead</b>	<b>13</b>		0.29	0.087	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Magnesium</b>	<b>30000</b>	<b>B</b>	5.8	1.2	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Manganese</b>	<b>280</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Nickel</b>	<b>28</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Potassium</b>	<b>1800</b>		29	1.7	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Selenium</b>	<b>1.0</b>		0.58	0.21	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Sodium</b>	<b>180</b>		58	7.8	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Thallium</b>	<b>0.32</b>	<b>J</b>	0.58	0.25	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Vanadium</b>	<b>13</b>		0.29	0.043	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1
<b>Zinc</b>	<b>57</b>		1.2	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 17:22	1
<b>Boron</b>	<b>0.78</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 17:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-2**

**Lab Sample ID: 500-75311-2**

Date Collected: 04/17/14 14:05

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 17:22	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:22	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:22	1
<b>Iron</b>	<b>0.47</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 17:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 17:22	1
<b>Manganese</b>	<b>0.033</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:22	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:22	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 17:22	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:22	1
<b>Zinc</b>	<b>0.12</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 17:22	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		04/21/14 15:00	04/22/14 14:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 14:44	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		04/21/14 16:00	04/22/14 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.026</b>		0.018	0.0071	mg/Kg	☆	04/24/14 14:24	04/28/14 10:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.60</b>		0.200	0.200	SU			04/25/14 14:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-3**

**Lab Sample ID: 500-75311-3**

**Date Collected: 04/17/14 14:10**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 81.7**

**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	☼	04/18/14 07:35	04/22/14 17:02	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Bromomethane	<0.0045	*	0.0045	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	04/18/14 07:35	04/22/14 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 122	04/18/14 07:35	04/22/14 17:02	1
Dibromofluoromethane	111		75 - 120	04/18/14 07:35	04/22/14 17:02	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/18/14 07:35	04/22/14 17:02	1
Toluene-d8 (Surr)	100		75 - 122	04/18/14 07:35	04/22/14 17:02	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	☼	04/22/14 07:01	04/29/14 17:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-3**

**Lab Sample ID: 500-75311-3**

**Date Collected: 04/17/14 14:10**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 81.7**

**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	☼	04/22/14 07:01	04/29/14 17:56	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
<b>2-Methylnaphthalene</b>	<b>0.031</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
<b>Phenanthrene</b>	<b>0.097</b>		0.040	0.0056	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
<b>Pyrene</b>	<b>0.015</b>	<b>J</b>	0.040	0.0079	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-3**

**Lab Sample ID: 500-75311-3**

Date Collected: 04/17/14 14:10

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.014</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
<b>Benzo[g,h,i]perylene</b>	<b>0.020</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:01	04/29/14 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	04/22/14 07:01	04/29/14 17:56	1
Phenol-d5	61		31 - 110	04/22/14 07:01	04/29/14 17:56	1
Nitrobenzene-d5	59		25 - 115	04/22/14 07:01	04/29/14 17:56	1
2-Fluorobiphenyl	65		25 - 119	04/22/14 07:01	04/29/14 17:56	1
2,4,6-Tribromophenol	44		35 - 137	04/22/14 07:01	04/29/14 17:56	1
Terphenyl-d14	76		36 - 134	04/22/14 07:01	04/29/14 17:56	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Arsenic</b>	<b>7.4</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Barium</b>	<b>31</b>		0.59	0.064	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Beryllium</b>	<b>0.55</b>		0.24	0.048	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Boron</b>	<b>12</b>		3.0	0.59	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Cadmium</b>	<b>0.17</b>	<b>B</b>	0.12	0.015	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Calcium</b>	<b>53000</b>		120	32	mg/Kg	☼	04/21/14 09:10	04/23/14 02:23	10
<b>Chromium</b>	<b>13</b>		0.59	0.069	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Cobalt</b>	<b>12</b>		0.30	0.059	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Copper</b>	<b>26</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Iron</b>	<b>18000</b>		12	4.9	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Lead</b>	<b>15</b>		0.30	0.089	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Magnesium</b>	<b>23000</b>	<b>B</b>	5.9	1.2	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Manganese</b>	<b>310</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Nickel</b>	<b>32</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Potassium</b>	<b>1900</b>		30	1.8	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Selenium</b>	<b>1.2</b>		0.59	0.21	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Sodium</b>	<b>170</b>		59	8.0	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Thallium</b>	<b>0.46</b>	<b>J</b>	0.59	0.25	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Vanadium</b>	<b>14</b>		0.30	0.044	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1
<b>Zinc</b>	<b>49</b>		1.2	0.24	mg/Kg	☼	04/21/14 09:10	04/22/14 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		04/28/14 07:30	04/28/14 17:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B03-3**

**Lab Sample ID: 500-75311-3**

Date Collected: 04/17/14 14:10

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 17:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 17:39	1
<b>Boron</b>	<b>0.85</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 17:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 17:39	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:39	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:39	1
<b>Iron</b>	<b>0.38</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 17:39	1
<b>Lead</b>	<b>0.0076</b>		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 17:39	1
<b>Manganese</b>	<b>0.041</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:39	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:39	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 17:39	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 17:39	1
<b>Zinc</b>	<b>0.16</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 17:39	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		04/21/14 15:00	04/22/14 14:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 14:55	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		04/21/14 16:00	04/22/14 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.020	0.0077	mg/Kg	✱	04/24/14 14:24	04/28/14 10:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.78</b>		0.200	0.200	SU			04/25/14 14:47	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B05**

**Lab Sample ID: 500-75311-7**

**Date Collected: 04/17/14 13:55**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 89.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Bromomethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Chloroethane	<0.0046	*	0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	04/18/14 07:35	04/22/14 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 122	04/18/14 07:35	04/22/14 18:34	1
Dibromofluoromethane	116		75 - 120	04/18/14 07:35	04/22/14 18:34	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	04/18/14 07:35	04/22/14 18:34	1
Toluene-d8 (Surr)	101		75 - 122	04/18/14 07:35	04/22/14 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B05**

**Lab Sample ID: 500-75311-7**

**Date Collected: 04/17/14 13:55**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 89.8**

**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	☼	04/22/14 07:01	04/29/14 18:52	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.043	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Naphthalene</b>	<b>0.047</b>		0.035	0.0055	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>2-Methylnaphthalene</b>	<b>0.032 J</b>		0.035	0.0065	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Acenaphthylene</b>	<b>0.069</b>		0.035	0.0047	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Acenaphthene</b>	<b>0.052</b>		0.035	0.0064	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Dibenzofuran</b>	<b>0.044 J</b>		0.18	0.042	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Fluorene</b>	<b>0.081</b>		0.035	0.0050	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.29	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Phenanthrene</b>	<b>1.2</b>		0.035	0.0050	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Anthracene</b>	<b>0.27</b>		0.035	0.0059	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Fluoranthene</b>	<b>1.9</b>		0.035	0.0066	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Pyrene</b>	<b>1.7</b>		0.035	0.0071	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Benzo[a]anthracene</b>	<b>0.92</b>		0.035	0.0048	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B05**

**Lab Sample ID: 500-75311-7**

Date Collected: 04/17/14 13:55

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.95</b>		0.035	0.0097	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Benzo[b]fluoranthene</b>	<b>1.2</b>		0.035	0.0077	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Benzo[k]fluoranthene</b>	<b>0.48</b>		0.035	0.010	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Benzo[a]pyrene</b>	<b>0.89</b>		0.035	0.0069	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.46</b>		0.035	0.0092	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Dibenz(a,h)anthracene</b>	<b>0.18</b>		0.035	0.0069	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Benzo[g,h,i]perylene</b>	<b>0.49</b>		0.035	0.011	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	04/22/14 07:01	04/29/14 18:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	64		25 - 110				04/22/14 07:01	04/29/14 18:52	1
Phenol-d5	59		31 - 110				04/22/14 07:01	04/29/14 18:52	1
Nitrobenzene-d5	58		25 - 115				04/22/14 07:01	04/29/14 18:52	1
2-Fluorobiphenyl	64		25 - 119				04/22/14 07:01	04/29/14 18:52	1
2,4,6-Tribromophenol	55		35 - 137				04/22/14 07:01	04/29/14 18:52	1
Terphenyl-d14	66		36 - 134				04/22/14 07:01	04/29/14 18:52	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.44</b>	<b>J</b>	1.1	0.44	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Arsenic</b>	<b>6.6</b>		0.54	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Barium</b>	<b>39</b>		0.54	0.058	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Beryllium</b>	<b>0.44</b>		0.22	0.043	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Boron</b>	<b>12</b>		2.7	0.54	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Cadmium</b>	<b>1.3</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Calcium</b>	<b>62000</b>		110	29	mg/Kg	☼	04/21/14 09:10	04/23/14 02:36	10
<b>Chromium</b>	<b>8.9</b>		0.54	0.063	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Cobalt</b>	<b>8.3</b>		0.27	0.054	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Copper</b>	<b>32</b>		0.54	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Iron</b>	<b>13000</b>		11	4.5	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Lead</b>	<b>79</b>		0.27	0.081	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Magnesium</b>	<b>28000</b>	<b>B</b>	5.4	1.1	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Manganese</b>	<b>220</b>		0.54	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Nickel</b>	<b>20</b>		0.54	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Potassium</b>	<b>1200</b>		27	1.6	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Selenium</b>	<b>0.70</b>		0.54	0.19	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Sodium</b>	<b>490</b>		54	7.3	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Thallium</b>	<b>0.25</b>	<b>J</b>	0.54	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Vanadium</b>	<b>11</b>		0.27	0.040	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1
<b>Zinc</b>	<b>76</b>		1.1	0.22	mg/Kg	☼	04/21/14 09:10	04/22/14 01:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:03	1
<b>Boron</b>	<b>1.3</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:03	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B05**

**Lab Sample ID: 500-75311-7**

Date Collected: 04/17/14 13:55

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:03	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:03	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:03	1
<b>Iron</b>	<b>0.36</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:03	1
Manganese	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:03	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:03	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:03	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:03	1
<b>Zinc</b>	<b>0.19</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:03	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		04/21/14 15:00	04/22/14 15:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:14	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		04/21/14 16:00	04/22/14 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.14</b>		0.018	0.0072	mg/Kg	☆	04/24/14 14:24	04/28/14 10:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.57</b>		0.200	0.200	SU			04/25/14 14:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B06**

**Lab Sample ID: 500-75311-8**

Date Collected: 04/17/14 13:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0057		0.0046	0.0020	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Bromomethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Chloroethane	<0.0046	*	0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	04/18/14 07:35	04/22/14 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 122	04/18/14 07:35	04/22/14 18:56	1
Dibromofluoromethane	114		75 - 120	04/18/14 07:35	04/22/14 18:56	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	04/18/14 07:35	04/22/14 18:56	1
Toluene-d8 (Surr)	101		75 - 122	04/18/14 07:35	04/22/14 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.96		0.96	0.42	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Bis(2-chloroethyl)ether	<0.96		0.96	0.29	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
1,3-Dichlorobenzene	<0.96		0.96	0.22	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
1,4-Dichlorobenzene	<0.96		0.96	0.25	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B06**

**Lab Sample ID: 500-75311-8**

**Date Collected: 04/17/14 13:45**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.96		0.96	0.23	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2-Methylphenol	<0.96		0.96	0.31	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2,2'-oxybis[1-chloropropane]	<0.96		0.96	0.22	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
N-Nitrosodi-n-propylamine	<0.96		0.96	0.23	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Hexachloroethane	<0.96		0.96	0.29	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2-Chlorophenol	<0.96		0.96	0.33	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Nitrobenzene	<0.19		0.19	0.048	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Bis(2-chloroethoxy)methane	<0.96		0.96	0.20	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
1,2,4-Trichlorobenzene	<0.96		0.96	0.21	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Isophorone	<0.96		0.96	0.21	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2,4-Dimethylphenol	<1.9		1.9	0.73	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Hexachlorobutadiene	<0.96		0.96	0.30	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Naphthalene</b>	<b>0.061</b>	<b>J</b>	0.19	0.029	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2,4-Dichlorophenol	<1.9		1.9	0.45	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
4-Chloroaniline	<3.9		3.9	0.90	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2,4,6-Trichlorophenol	<1.9		1.9	0.66	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2,4,5-Trichlorophenol	<1.9		1.9	0.44	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Hexachlorocyclopentadiene	<3.9		3.9	1.1	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>2-Methylnaphthalene</b>	<b>0.039</b>	<b>J</b>	0.19	0.035	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2-Nitroaniline	<0.96		0.96	0.26	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2-Chloronaphthalene	<0.96		0.96	0.21	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
4-Chloro-3-methylphenol	<1.9		1.9	0.65	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2,6-Dinitrotoluene	<0.96		0.96	0.38	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2-Nitrophenol	<1.9		1.9	0.45	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
3-Nitroaniline	<1.9		1.9	0.59	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Dimethyl phthalate	<0.96		0.96	0.25	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2,4-Dinitrophenol	<3.9		3.9	3.4	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Acenaphthylene</b>	<b>0.043</b>	<b>J</b>	0.19	0.025	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
2,4-Dinitrotoluene	<0.96		0.96	0.30	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Acenaphthene</b>	<b>0.087</b>	<b>J</b>	0.19	0.034	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Dibenzofuran	<0.96		0.96	0.22	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
4-Nitrophenol	<3.9		3.9	1.8	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Fluorene</b>	<b>0.10</b>	<b>J</b>	0.19	0.027	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
4-Nitroaniline	<1.9		1.9	0.80	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
4-Bromophenyl phenyl ether	<0.96		0.96	0.25	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Hexachlorobenzene	<0.39		0.39	0.044	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Diethyl phthalate	<0.96		0.96	0.32	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
4-Chlorophenyl phenyl ether	<0.96		0.96	0.22	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Pentachlorophenol	<3.9		3.9	3.1	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
N-Nitrosodiphenylamine	<0.96		0.96	0.23	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	1.5	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Phenanthrene</b>	<b>1.0</b>		0.19	0.027	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Anthracene</b>	<b>0.24</b>		0.19	0.032	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Carbazole	<0.96		0.96	0.49	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Di-n-butyl phthalate	<0.96		0.96	0.29	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Fluoranthene</b>	<b>1.4</b>		0.19	0.035	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Pyrene</b>	<b>1.8</b>		0.19	0.038	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Butyl benzyl phthalate	<0.96		0.96	0.36	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Benzo[a]anthracene</b>	<b>1.1</b>		0.19	0.026	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B06**

**Lab Sample ID: 500-75311-8**

Date Collected: 04/17/14 13:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>1.2</b>		0.19	0.052	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
3,3'-Dichlorobenzidine	<0.96		0.96	0.27	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Bis(2-ethylhexyl) phthalate	<0.96		0.96	0.35	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
Di-n-octyl phthalate	<0.96		0.96	0.31	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Benzo[b]fluoranthene</b>	<b>1.4</b>		0.19	0.041	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Benzo[k]fluoranthene</b>	<b>0.45</b>		0.19	0.056	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Benzo[a]pyrene</b>	<b>1.0</b>		0.19	0.037	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.62</b>		0.19	0.050	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Dibenz(a,h)anthracene</b>	<b>0.19</b>		0.19	0.037	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Benzo[g,h,i]perylene</b>	<b>0.81</b>		0.19	0.062	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
3 & 4 Methylphenol	<0.96		0.96	0.32	mg/Kg	☼	04/22/14 07:01	04/26/14 23:33	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	64		25 - 110				04/22/14 07:01	04/26/14 23:33	5
Phenol-d5	69		31 - 110				04/22/14 07:01	04/26/14 23:33	5
Nitrobenzene-d5	52		25 - 115				04/22/14 07:01	04/26/14 23:33	5
2-Fluorobiphenyl	65		25 - 119				04/22/14 07:01	04/26/14 23:33	5
2,4,6-Tribromophenol	64		35 - 137				04/22/14 07:01	04/26/14 23:33	5
Terphenyl-d14	83		36 - 134				04/22/14 07:01	04/26/14 23:33	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.47</b>	<b>J</b>	1.1	0.45	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Arsenic</b>	<b>9.9</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Barium</b>	<b>35</b>		0.55	0.059	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Beryllium</b>	<b>0.61</b>		0.22	0.044	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Boron</b>	<b>11</b>		2.8	0.55	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Cadmium</b>	<b>0.32</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Calcium</b>	<b>63000</b>		110	30	mg/Kg	☼	04/21/14 09:10	04/23/14 02:40	10
<b>Chromium</b>	<b>11</b>		0.55	0.064	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Cobalt</b>	<b>13</b>		0.28	0.055	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Copper</b>	<b>33</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Iron</b>	<b>21000</b>		11	4.6	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Lead</b>	<b>110</b>		0.28	0.083	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Magnesium</b>	<b>29000</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Manganese</b>	<b>280</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Nickel</b>	<b>37</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Potassium</b>	<b>1700</b>		28	1.7	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Selenium</b>	<b>1.1</b>		0.55	0.20	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Sodium</b>	<b>250</b>		55	7.4	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Thallium</b>	<b>0.46</b>	<b>J</b>	0.55	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Vanadium</b>	<b>13</b>		0.28	0.041	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1
<b>Zinc</b>	<b>310</b>		1.1	0.22	mg/Kg	☼	04/21/14 09:10	04/22/14 01:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:07	1
<b>Boron</b>	<b>1.0</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B06**

**Lab Sample ID: 500-75311-8**

Date Collected: 04/17/14 13:45

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:07	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:07	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:07	1
<b>Iron</b>	<b>0.30</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:07	1
Manganese	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:07	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:07	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:07	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:07	1
<b>Zinc</b>	<b>0.16</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:07	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		04/21/14 15:00	04/22/14 15:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:17	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		04/21/14 16:00	04/22/14 11:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.050</b>		0.018	0.0073	mg/Kg	☆	04/24/14 14:24	04/28/14 10:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.64</b>		0.200	0.200	SU			04/25/14 15:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B07**

**Lab Sample ID: 500-75311-9**

**Date Collected: 04/17/14 13:35**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 86.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0098		0.0049	0.0021	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Bromomethane	<0.0049	*	0.0049	0.0015	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	04/18/14 07:35	04/22/14 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 122	04/18/14 07:35	04/22/14 19:20	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/22/14 19:20	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/18/14 07:35	04/22/14 19:20	1
Toluene-d8 (Surr)	100		75 - 122	04/18/14 07:35	04/22/14 19:20	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	☼	04/22/14 07:01	04/26/14 23:57	5
Bis(2-chloroethyl)ether	<0.92		0.92	0.27	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
1,3-Dichlorobenzene	<0.92		0.92	0.21	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
1,4-Dichlorobenzene	<0.92		0.92	0.23	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B07**

**Lab Sample ID: 500-75311-9**

**Date Collected: 04/17/14 13:35**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 86.3**

**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	*	04/22/14 07:01	04/26/14 23:57	5
2-Methylphenol	<0.92		0.92	0.29	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2,2'-oxybis[1-chloropropane]	<0.92		0.92	0.21	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
N-Nitrosodi-n-propylamine	<0.92		0.92	0.22	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Hexachloroethane	<0.92		0.92	0.28	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2-Chlorophenol	<0.92		0.92	0.31	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Nitrobenzene	<0.18		0.18	0.046	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Bis(2-chloroethoxy)methane	<0.92		0.92	0.19	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
1,2,4-Trichlorobenzene	<0.92		0.92	0.20	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Isophorone	<0.92		0.92	0.21	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2,4-Dimethylphenol	<1.8		1.8	0.69	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Hexachlorobutadiene	<0.92		0.92	0.29	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Naphthalene	<0.18		0.18	0.028	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2,4-Dichlorophenol	<1.8		1.8	0.43	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
4-Chloroaniline	<3.7		3.7	0.86	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2,4,6-Trichlorophenol	<1.8		1.8	0.63	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2,4,5-Trichlorophenol	<1.8		1.8	0.42	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Hexachlorocyclopentadiene	<3.7		3.7	1.1	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
<b>2-Methylnaphthalene</b>	<b>0.041</b>	<b>J</b>	0.18	0.034	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2-Nitroaniline	<0.92		0.92	0.25	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2-Chloronaphthalene	<0.92		0.92	0.20	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
4-Chloro-3-methylphenol	<1.8		1.8	0.62	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2,6-Dinitrotoluene	<0.92		0.92	0.36	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2-Nitrophenol	<1.8		1.8	0.43	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
3-Nitroaniline	<1.8		1.8	0.57	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Dimethyl phthalate	<0.92		0.92	0.24	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2,4-Dinitrophenol	<3.7		3.7	3.2	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
<b>Acenaphthylene</b>	<b>0.050</b>	<b>J</b>	0.18	0.024	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
2,4-Dinitrotoluene	<0.92		0.92	0.29	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Acenaphthene	<0.18		0.18	0.033	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Dibenzofuran	<0.92		0.92	0.21	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
4-Nitrophenol	<3.7		3.7	1.7	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
<b>Fluorene</b>	<b>0.047</b>	<b>J</b>	0.18	0.026	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
4-Nitroaniline	<1.8		1.8	0.77	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
4-Bromophenyl phenyl ether	<0.92		0.92	0.24	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Hexachlorobenzene	<0.37		0.37	0.042	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Diethyl phthalate	<0.92		0.92	0.31	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
4-Chlorophenyl phenyl ether	<0.92		0.92	0.21	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Pentachlorophenol	<3.7		3.7	2.9	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
N-Nitrosodiphenylamine	<0.92		0.92	0.22	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
4,6-Dinitro-2-methylphenol	<1.8		1.8	1.5	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
<b>Phenanthrene</b>	<b>0.57</b>		0.18	0.026	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
<b>Anthracene</b>	<b>0.15</b>	<b>J</b>	0.18	0.031	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Carbazole	<0.92		0.92	0.47	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Di-n-butyl phthalate	<0.92		0.92	0.28	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
<b>Fluoranthene</b>	<b>0.79</b>		0.18	0.034	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
<b>Pyrene</b>	<b>1.1</b>		0.18	0.036	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
Butyl benzyl phthalate	<0.92		0.92	0.35	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5
<b>Benzo[a]anthracene</b>	<b>0.59</b>		0.18	0.025	mg/Kg	*	04/22/14 07:01	04/26/14 23:57	5

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B07**

**Lab Sample ID: 500-75311-9**

Date Collected: 04/17/14 13:35

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.60</b>		0.18	0.050	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
3,3'-Dichlorobenzidine	<0.92		0.92	0.26	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
Bis(2-ethylhexyl) phthalate	<0.92		0.92	0.33	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
Di-n-octyl phthalate	<0.92		0.92	0.30	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
<b>Benzo[b]fluoranthene</b>	<b>0.67</b>		0.18	0.040	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
<b>Benzo[k]fluoranthene</b>	<b>0.26</b>		0.18	0.054	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
<b>Benzo[a]pyrene</b>	<b>0.52</b>		0.18	0.035	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.31</b>		0.18	0.047	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
<b>Dibenz(a,h)anthracene</b>	<b>0.10</b>	J	0.18	0.035	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
<b>Benzo[g,h,i]perylene</b>	<b>0.39</b>		0.18	0.059	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
3 & 4 Methylphenol	<0.92		0.92	0.31	mg/Kg	☼	04/22/14 07:01	04/26/14 23:57	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	63		25 - 110				04/22/14 07:01	04/26/14 23:57	5
Phenol-d5	62		31 - 110				04/22/14 07:01	04/26/14 23:57	5
Nitrobenzene-d5	50		25 - 115				04/22/14 07:01	04/26/14 23:57	5
2-Fluorobiphenyl	64		25 - 119				04/22/14 07:01	04/26/14 23:57	5
2,4,6-Tribromophenol	65		35 - 137				04/22/14 07:01	04/26/14 23:57	5
Terphenyl-d14	77		36 - 134				04/22/14 07:01	04/26/14 23:57	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.49</b>	J	1.1	0.45	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Arsenic</b>	<b>7.1</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Barium</b>	<b>35</b>		0.56	0.060	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Beryllium</b>	<b>0.47</b>		0.22	0.045	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Boron</b>	<b>11</b>		2.8	0.56	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Cadmium</b>	<b>0.32</b>	B	0.11	0.014	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Calcium</b>	<b>55000</b>		110	30	mg/Kg	☼	04/21/14 09:10	04/23/14 02:44	10
<b>Chromium</b>	<b>11</b>		0.56	0.065	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Cobalt</b>	<b>9.1</b>		0.28	0.056	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Copper</b>	<b>32</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Iron</b>	<b>14000</b>		11	4.6	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Lead</b>	<b>68</b>		0.28	0.083	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Magnesium</b>	<b>24000</b>	B	5.6	1.2	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Manganese</b>	<b>260</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Nickel</b>	<b>23</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Potassium</b>	<b>1600</b>		28	1.7	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Selenium</b>	<b>0.96</b>		0.56	0.20	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Sodium</b>	<b>1800</b>		56	7.5	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Thallium</b>	<b>0.38</b>	J	0.56	0.24	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Vanadium</b>	<b>12</b>		0.28	0.041	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1
<b>Zinc</b>	<b>66</b>		1.1	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	J B	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:11	1
<b>Boron</b>	<b>1.3</b>	B	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B07**

**Lab Sample ID: 500-75311-9**

Date Collected: 04/17/14 13:35

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:11	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:11	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:11	1
Iron	<0.20		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:11	1
<b>Manganese</b>	<b>0.031</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:11	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:11	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:11	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:11	1
<b>Zinc</b>	<b>0.18</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:11	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		04/21/14 15:00	04/22/14 15:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:19	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		04/21/14 16:00	04/22/14 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.11</b>		0.019	0.0073	mg/Kg	☆	04/24/14 14:24	04/28/14 10:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.72</b>		0.200	0.200	SU			04/25/14 15:02	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-1**

**Lab Sample ID: 500-75311-10**

Date Collected: 04/17/14 12:35

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 86.7

**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	☼	04/18/14 07:35	04/23/14 17:23	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	04/18/14 07:35	04/23/14 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	04/18/14 07:35	04/23/14 17:23	1
Dibromofluoromethane	108		75 - 120	04/18/14 07:35	04/23/14 17:23	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/18/14 07:35	04/23/14 17:23	1
Toluene-d8 (Surr)	107		75 - 122	04/18/14 07:35	04/23/14 17:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-1**

**Lab Sample ID: 500-75311-10**

Date Collected: 04/17/14 12:35

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 86.7

**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	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Naphthalene</b>	<b>0.033</b>	<b>J</b>	0.037	0.0057	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>2-Methylnaphthalene</b>	<b>0.042</b>		0.037	0.0068	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Acenaphthylene</b>	<b>0.065</b>		0.037	0.0049	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Acenaphthene</b>	<b>0.045</b>		0.037	0.0067	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Dibenzofuran</b>	<b>0.046</b>	<b>J</b>	0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Fluorene</b>	<b>0.059</b>		0.037	0.0052	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Phenanthrene</b>	<b>0.82</b>		0.037	0.0052	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Anthracene</b>	<b>0.19</b>		0.037	0.0062	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Fluoranthene</b>	<b>0.95</b>		0.037	0.0069	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Pyrene</b>	<b>1.2</b>		0.037	0.0074	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Benzo[a]anthracene</b>	<b>0.69</b>		0.037	0.0050	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-1**

**Lab Sample ID: 500-75311-10**

Date Collected: 04/17/14 12:35

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.70</b>		0.037	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Benzo[b]fluoranthene</b>	<b>0.84</b>		0.037	0.0080	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Benzo[k]fluoranthene</b>	<b>0.29</b>		0.037	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Benzo[a]pyrene</b>	<b>0.63</b>		0.037	0.0072	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.32</b>		0.037	0.0096	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Dibenz(a,h)anthracene</b>	<b>0.11</b>		0.037	0.0072	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Benzo[g,h,i]perylene</b>	<b>0.38</b>		0.037	0.012	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 00:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	51		25 - 110				04/22/14 07:01	04/27/14 00:20	1
Phenol-d5	58		31 - 110				04/22/14 07:01	04/27/14 00:20	1
Nitrobenzene-d5	44		25 - 115				04/22/14 07:01	04/27/14 00:20	1
2-Fluorobiphenyl	55		25 - 119				04/22/14 07:01	04/27/14 00:20	1
2,4,6-Tribromophenol	46		35 - 137				04/22/14 07:01	04/27/14 00:20	1
Terphenyl-d14	62		36 - 134				04/22/14 07:01	04/27/14 00:20	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.47</b>	<b>J</b>	1.1	0.44	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Arsenic</b>	<b>8.1</b>		0.54	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Barium</b>	<b>46</b>		0.54	0.058	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Beryllium</b>	<b>0.50</b>		0.22	0.044	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Boron</b>	<b>11</b>		2.7	0.54	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Cadmium</b>	<b>0.28</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Calcium</b>	<b>55000</b>		110	30	mg/Kg	☼	04/21/14 09:10	04/23/14 02:48	10
<b>Chromium</b>	<b>11</b>		0.54	0.063	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Cobalt</b>	<b>11</b>		0.27	0.054	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Copper</b>	<b>42</b>		0.54	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Iron</b>	<b>16000</b>		11	4.5	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Lead</b>	<b>69</b>		0.27	0.081	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Magnesium</b>	<b>22000</b>	<b>B</b>	5.4	1.1	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Manganese</b>	<b>270</b>		0.54	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Nickel</b>	<b>27</b>		0.54	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Potassium</b>	<b>1800</b>		27	1.6	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Selenium</b>	<b>0.85</b>		0.54	0.19	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Sodium</b>	<b>150</b>		54	7.3	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Thallium</b>	<b>0.45</b>	<b>J</b>	0.54	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Vanadium</b>	<b>13</b>		0.27	0.040	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1
<b>Zinc</b>	<b>74</b>		1.1	0.22	mg/Kg	☼	04/21/14 09:10	04/22/14 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.21</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:15	1
<b>Boron</b>	<b>1.3</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-1**

**Lab Sample ID: 500-75311-10**

Date Collected: 04/17/14 12:35

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:15	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:15	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:15	1
<b>Iron</b>	<b>0.23</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:15	1
<b>Manganese</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:15	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:15	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:15	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:15	1
<b>Zinc</b>	<b>0.19</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:15	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		04/21/14 15:00	04/22/14 15:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:22	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		04/21/14 16:00	04/22/14 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.44</b>		0.085	0.033	mg/Kg	☆	04/24/14 14:24	04/28/14 12:00	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.43</b>		0.200	0.200	SU			04/26/14 19:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-2**

**Lab Sample ID: 500-75311-11**

**Date Collected: 04/17/14 12:40**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Bromomethane	<0.0048	*	0.0048	0.0015	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	04/18/14 07:35	04/22/14 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 122	04/18/14 07:35	04/22/14 20:06	1
Dibromofluoromethane	109		75 - 120	04/18/14 07:35	04/22/14 20:06	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	04/18/14 07:35	04/22/14 20:06	1
Toluene-d8 (Surr)	102		75 - 122	04/18/14 07:35	04/22/14 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-2**

**Lab Sample ID: 500-75311-11**

Date Collected: 04/17/14 12:40

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.7

**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	☼	04/22/14 07:01	04/27/14 00:44	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
<b>2-Methylnaphthalene</b>	<b>0.027</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
<b>Acenaphthene</b>	<b>0.012</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
<b>Phenanthrene</b>	<b>0.12</b>		0.040	0.0056	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
<b>Pyrene</b>	<b>0.036</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
<b>Benzo[a]anthracene</b>	<b>0.015</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-2**

**Lab Sample ID: 500-75311-11**

Date Collected: 04/17/14 12:40

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.044</b>		0.040	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
<b>Benzo[a]pyrene</b>	<b>0.020</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.012</b>	<b>J</b>	0.040	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:01	04/27/14 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	04/22/14 07:01	04/27/14 00:44	1
Phenol-d5	59		31 - 110	04/22/14 07:01	04/27/14 00:44	1
Nitrobenzene-d5	45		25 - 115	04/22/14 07:01	04/27/14 00:44	1
2-Fluorobiphenyl	58		25 - 119	04/22/14 07:01	04/27/14 00:44	1
2,4,6-Tribromophenol	50		35 - 137	04/22/14 07:01	04/27/14 00:44	1
Terphenyl-d14	75		36 - 134	04/22/14 07:01	04/27/14 00:44	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.51</b>	<b>J</b>	1.1	0.45	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Arsenic</b>	<b>8.0</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Barium</b>	<b>29</b>		0.56	0.060	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Beryllium</b>	<b>0.49</b>		0.23	0.045	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Boron</b>	<b>11</b>		2.8	0.56	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Cadmium</b>	<b>0.20</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Calcium</b>	<b>32000</b>		11	3.0	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Chromium</b>	<b>12</b>		0.56	0.065	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Cobalt</b>	<b>12</b>		0.28	0.056	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Copper</b>	<b>26</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Iron</b>	<b>15000</b>		11	4.6	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Lead</b>	<b>15</b>		0.28	0.084	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	5.6	1.2	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Manganese</b>	<b>260</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Nickel</b>	<b>30</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Potassium</b>	<b>2000</b>		28	1.7	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Selenium</b>	<b>1.1</b>		0.56	0.20	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Sodium</b>	<b>140</b>		56	7.5	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Thallium</b>	<b>0.27</b>	<b>J</b>	0.56	0.24	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Vanadium</b>	<b>14</b>		0.28	0.042	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1
<b>Zinc</b>	<b>47</b>		1.1	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 01:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:19	1
<b>Boron</b>	<b>1.0</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:19	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-2**

**Lab Sample ID: 500-75311-11**

Date Collected: 04/17/14 12:40

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:19	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:19	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:19	1
<b>Iron</b>	<b>0.25</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:19	1
<b>Manganese</b>	<b>0.043</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:19	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:19	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:19	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:19	1
<b>Zinc</b>	<b>0.15</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:19	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		04/21/14 15:00	04/22/14 15:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:25	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		04/21/14 16:00	04/22/14 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.018	0.0070	mg/Kg	☆	04/24/14 14:24	04/28/14 10:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.79</b>		0.200	0.200	SU			04/26/14 20:21	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-3**

**Lab Sample ID: 500-75311-12**

**Date Collected: 04/17/14 12:45**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0065		0.0048	0.0021	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Bromomethane	<0.0048	*	0.0048	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	04/18/14 07:35	04/22/14 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 122	04/18/14 07:35	04/22/14 20:28	1
Dibromofluoromethane	112		75 - 120	04/18/14 07:35	04/22/14 20:28	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/18/14 07:35	04/22/14 20:28	1
Toluene-d8 (Surr)	97		75 - 122	04/18/14 07:35	04/22/14 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.091	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-3**

**Lab Sample ID: 500-75311-12**

Date Collected: 04/17/14 12:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.7

**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	0.049	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
<b>Naphthalene</b>	<b>0.0092</b>	<b>J</b>	0.041	0.0063	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
<b>2-Methylnaphthalene</b>	<b>0.032</b>	<b>J</b>	0.041	0.0075	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
<b>Phenanthrene</b>	<b>0.092</b>		0.041	0.0057	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
<b>Pyrene</b>	<b>0.016</b>	<b>J</b>	0.041	0.0081	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
<b>Benzo[a]anthracene</b>	<b>0.010</b>	<b>J</b>	0.041	0.0055	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-3**

**Lab Sample ID: 500-75311-12**

Date Collected: 04/17/14 12:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.018</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.075	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Di-n-octyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.041	0.0088	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
<b>Benzo[g,h,i]perylene</b>	<b>0.025</b>	<b>J</b>	0.041	0.013	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:01	04/29/14 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	04/22/14 07:01	04/29/14 19:10	1
Phenol-d5	56		31 - 110	04/22/14 07:01	04/29/14 19:10	1
Nitrobenzene-d5	58		25 - 115	04/22/14 07:01	04/29/14 19:10	1
2-Fluorobiphenyl	56		25 - 119	04/22/14 07:01	04/29/14 19:10	1
2,4,6-Tribromophenol	45		35 - 137	04/22/14 07:01	04/29/14 19:10	1
Terphenyl-d14	72		36 - 134	04/22/14 07:01	04/29/14 19:10	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Arsenic</b>	<b>7.2</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Barium</b>	<b>32</b>		0.57	0.061	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.046	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Boron</b>	<b>12</b>		2.9	0.57	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Cadmium</b>	<b>0.17</b>	<b>B</b>	0.11	0.015	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Calcium</b>	<b>49000</b>		110	31	mg/Kg	☼	04/21/14 09:10	04/23/14 02:52	10
<b>Chromium</b>	<b>12</b>		0.57	0.066	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Cobalt</b>	<b>12</b>		0.29	0.057	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Copper</b>	<b>26</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Iron</b>	<b>16000</b>		11	4.7	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Lead</b>	<b>14</b>		0.29	0.085	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.7	1.2	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Manganese</b>	<b>280</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Nickel</b>	<b>29</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Potassium</b>	<b>2000</b>		29	1.7	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Selenium</b>	<b>0.75</b>		0.57	0.20	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Sodium</b>	<b>150</b>		57	7.7	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Thallium</b>	<b>0.33</b>	<b>J</b>	0.57	0.24	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Vanadium</b>	<b>14</b>		0.29	0.042	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1
<b>Zinc</b>	<b>43</b>		1.1	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.29</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:23	1
<b>Boron</b>	<b>1.3</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-3**

**Lab Sample ID: 500-75311-12**

Date Collected: 04/17/14 12:45

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:23	1
<b>Iron</b>	<b>1.3</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:23	1
<b>Manganese</b>	<b>0.040</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:23	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:23	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:23	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:23	1
<b>Zinc</b>	<b>0.18</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:23	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		04/21/14 15:00	04/22/14 15:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:27	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		04/21/14 16:00	04/22/14 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.019	0.0076	mg/Kg	☆	04/24/14 14:24	04/28/14 10:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.55</b>		0.200	0.200	SU			04/26/14 20:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-1**

**Lab Sample ID: 500-75311-16**

Date Collected: 04/17/14 11:35

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0049	0.0021	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Bromomethane	<0.0049	*	0.0049	0.0015	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	04/18/14 07:35	04/22/14 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 122	04/18/14 07:35	04/22/14 21:37	1
Dibromofluoromethane	115		75 - 120	04/18/14 07:35	04/22/14 21:37	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/18/14 07:35	04/22/14 21:37	1
Toluene-d8 (Surr)	99		75 - 122	04/18/14 07:35	04/22/14 21:37	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	☼	04/22/14 07:01	04/27/14 02:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-1**

**Lab Sample ID: 500-75311-16**

Date Collected: 04/17/14 11:35

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.3

**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	☼	04/22/14 07:01	04/27/14 02:42	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Naphthalene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0059	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>2-Methylnaphthalene</b>	<b>0.030</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Acenaphthylene</b>	<b>0.0090</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Acenaphthene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0069	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Fluorene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Phenanthrene</b>	<b>0.18</b>		0.038	0.0054	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Anthracene</b>	<b>0.034</b>	<b>J</b>	0.038	0.0065	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Fluoranthene</b>	<b>0.17</b>		0.038	0.0072	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Pyrene</b>	<b>0.22</b>		0.038	0.0077	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Benzo[a]anthracene</b>	<b>0.10</b>		0.038	0.0052	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-1**

**Lab Sample ID: 500-75311-16**

Date Collected: 04/17/14 11:35

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.13</b>		0.038	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Benzo[b]fluoranthene</b>	<b>0.12</b>		0.038	0.0083	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Benzo[k]fluoranthene</b>	<b>0.048</b>		0.038	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Benzo[a]pyrene</b>	<b>0.095</b>		0.038	0.0075	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.050</b>		0.038	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Dibenz(a,h)anthracene</b>	<b>0.016</b>	J	0.038	0.0075	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
<b>Benzo[g,h,i]perylene</b>	<b>0.081</b>		0.038	0.012	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/22/14 07:01	04/27/14 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110	04/22/14 07:01	04/27/14 02:42	1
Phenol-d5	56		31 - 110	04/22/14 07:01	04/27/14 02:42	1
Nitrobenzene-d5	43		25 - 115	04/22/14 07:01	04/27/14 02:42	1
2-Fluorobiphenyl	59		25 - 119	04/22/14 07:01	04/27/14 02:42	1
2,4,6-Tribromophenol	50		35 - 137	04/22/14 07:01	04/27/14 02:42	1
Terphenyl-d14	72		36 - 134	04/22/14 07:01	04/27/14 02:42	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Arsenic</b>	<b>6.0</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Barium</b>	<b>34</b>		0.60	0.064	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Beryllium</b>	<b>0.49</b>		0.24	0.048	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Boron</b>	<b>12</b>		3.0	0.60	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Cadmium</b>	<b>0.25</b>	B	0.12	0.015	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Calcium</b>	<b>59000</b>		120	33	mg/Kg	☼	04/21/14 09:10	04/23/14 03:11	10
<b>Chromium</b>	<b>11</b>		0.60	0.070	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Cobalt</b>	<b>10</b>		0.30	0.060	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Copper</b>	<b>22</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Iron</b>	<b>14000</b>		12	5.0	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Lead</b>	<b>30</b>		0.30	0.090	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Magnesium</b>	<b>23000</b>	B	6.0	1.2	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Manganese</b>	<b>250</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Nickel</b>	<b>24</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Potassium</b>	<b>1900</b>		30	1.8	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Selenium</b>	<b>0.80</b>		0.60	0.21	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Sodium</b>	<b>540</b>		60	8.1	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Thallium</b>	<b>0.25</b>	J	0.60	0.25	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Vanadium</b>	<b>14</b>		0.30	0.045	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1
<b>Zinc</b>	<b>53</b>		1.2	0.24	mg/Kg	☼	04/21/14 09:10	04/22/14 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	J B	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:47	1
<b>Boron</b>	<b>0.97</b>	B	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-1**

**Lab Sample ID: 500-75311-16**

Date Collected: 04/17/14 11:35

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:47	1
<b>Iron</b>	<b>1.7</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:47	1
<b>Lead</b>	<b>0.0075</b>		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:47	1
<b>Manganese</b>	<b>0.035</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:47	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:47	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:47	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:47	1
<b>Zinc</b>	<b>0.15</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:47	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		04/21/14 15:00	04/22/14 15:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:46	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		04/21/14 16:00	04/22/14 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.050</b>		0.020	0.0079	mg/Kg	☆	04/24/14 14:24	04/28/14 10:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.46</b>		0.200	0.200	SU			04/26/14 22:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-2**

**Lab Sample ID: 500-75311-17**

Date Collected: 04/17/14 11:40

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013		0.0050	0.0021	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Bromomethane	<0.0050	*	0.0050	0.0015	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	04/18/14 07:35	04/22/14 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 122	04/18/14 07:35	04/22/14 22:00	1
Dibromofluoromethane	113		75 - 120	04/18/14 07:35	04/22/14 22:00	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/18/14 07:35	04/22/14 22:00	1
Toluene-d8 (Surr)	101		75 - 122	04/18/14 07:35	04/22/14 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-2**

**Lab Sample ID: 500-75311-17**

**Date Collected: 04/17/14 11:40**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 80.8**

**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	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
<b>2-Methylnaphthalene</b>	<b>0.042</b>		0.039	0.0072	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
<b>Acenaphthene</b>	<b>0.011 J</b>		0.039	0.0070	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
<b>Phenanthrene</b>	<b>0.11</b>		0.039	0.0054	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
<b>Pyrene</b>	<b>0.026 J</b>		0.039	0.0077	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-2**

**Lab Sample ID: 500-75311-17**

Date Collected: 04/17/14 11:40

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.029</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
<b>Benzo[g,h,i]perylene</b>	<b>0.029</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:01	04/27/14 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	04/22/14 07:01	04/27/14 03:05	1
Phenol-d5	59		31 - 110	04/22/14 07:01	04/27/14 03:05	1
Nitrobenzene-d5	44		25 - 115	04/22/14 07:01	04/27/14 03:05	1
2-Fluorobiphenyl	62		25 - 119	04/22/14 07:01	04/27/14 03:05	1
2,4,6-Tribromophenol	54		35 - 137	04/22/14 07:01	04/27/14 03:05	1
Terphenyl-d14	78		36 - 134	04/22/14 07:01	04/27/14 03:05	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	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Arsenic</b>	<b>10</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Barium</b>	<b>36</b>		0.61	0.066	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Beryllium</b>	<b>0.56</b>		0.25	0.049	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Boron</b>	<b>14</b>		3.1	0.61	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Cadmium</b>	<b>0.19</b>	<b>B</b>	0.12	0.016	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Calcium</b>	<b>60000</b>		120	33	mg/Kg	☼	04/21/14 09:10	04/23/14 03:15	10
<b>Chromium</b>	<b>14</b>		0.61	0.071	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Cobalt</b>	<b>13</b>		0.31	0.061	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Copper</b>	<b>35</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Iron</b>	<b>18000</b>		12	5.1	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Lead</b>	<b>16</b>		0.31	0.092	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Magnesium</b>	<b>24000</b>	<b>B</b>	6.1	1.3	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Manganese</b>	<b>290</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Nickel</b>	<b>31</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Potassium</b>	<b>2300</b>		31	1.8	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Selenium</b>	<b>0.79</b>		0.61	0.22	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Sodium</b>	<b>540</b>		61	8.2	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Thallium</b>	<b>0.51</b>	<b>J</b>	0.61	0.26	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Vanadium</b>	<b>15</b>		0.31	0.045	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1
<b>Zinc</b>	<b>47</b>		1.2	0.25	mg/Kg	☼	04/21/14 09:10	04/22/14 02:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.25</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:51	1
<b>Boron</b>	<b>1.2</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:51	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-2**

**Lab Sample ID: 500-75311-17**

Date Collected: 04/17/14 11:40

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:51	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:51	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:51	1
<b>Iron</b>	<b>1.0</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:51	1
<b>Manganese</b>	<b>0.032</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:51	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:51	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:51	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:51	1
<b>Zinc</b>	<b>0.18</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:51	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		04/21/14 15:00	04/22/14 15:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:49	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		04/21/14 16:00	04/22/14 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
<b>Mercury</b>	<b>0.025</b>		0.018	0.0071	mg/Kg	☆	04/24/14 14:24	04/28/14 10:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.85</b>		0.200	0.200	SU			04/26/14 23:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-3**

**Lab Sample ID: 500-75311-18**

**Date Collected: 04/17/14 11:45**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0063		0.0049	0.0021	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Bromomethane	<0.0049	*	0.0049	0.0015	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	04/18/14 07:35	04/22/14 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 122	04/18/14 07:35	04/22/14 22:23	1
Dibromofluoromethane	119		75 - 120	04/18/14 07:35	04/22/14 22:23	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/18/14 07:35	04/22/14 22:23	1
Toluene-d8 (Surr)	101		75 - 122	04/18/14 07:35	04/22/14 22:23	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	☼	04/22/14 07:01	04/27/14 03:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-3**

**Lab Sample ID: 500-75311-18**

**Date Collected: 04/17/14 11:45**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 80.4**

**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	☼	04/22/14 07:01	04/27/14 03:29	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
<b>2-Methylnaphthalene</b>	<b>0.027</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
<b>Phenanthrene</b>	<b>0.081</b>		0.040	0.0056	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
<b>Pyrene</b>	<b>0.019</b>	<b>J</b>	0.040	0.0079	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-3**

**Lab Sample ID: 500-75311-18**

Date Collected: 04/17/14 11:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.023</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
<b>Benzo[g,h,i]perylene</b>	<b>0.020</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:01	04/27/14 03:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110	04/22/14 07:01	04/27/14 03:29	1
Phenol-d5	49		31 - 110	04/22/14 07:01	04/27/14 03:29	1
Nitrobenzene-d5	39		25 - 115	04/22/14 07:01	04/27/14 03:29	1
2-Fluorobiphenyl	49		25 - 119	04/22/14 07:01	04/27/14 03:29	1
2,4,6-Tribromophenol	34	X	35 - 137	04/22/14 07:01	04/27/14 03:29	1
Terphenyl-d14	59		36 - 134	04/22/14 07:01	04/27/14 03:29	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Arsenic</b>	<b>7.9</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Barium</b>	<b>34</b>		0.59	0.063	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Beryllium</b>	<b>0.50</b>		0.24	0.047	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Boron</b>	<b>13</b>		2.9	0.59	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Cadmium</b>	<b>0.16</b>	<b>B</b>	0.12	0.015	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Calcium</b>	<b>47000</b>		120	32	mg/Kg	☼	04/21/14 09:10	04/23/14 03:19	10
<b>Chromium</b>	<b>13</b>		0.59	0.068	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Cobalt</b>	<b>12</b>		0.29	0.059	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Copper</b>	<b>26</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Iron</b>	<b>16000</b>		12	4.8	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Lead</b>	<b>14</b>		0.29	0.088	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.9	1.2	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Manganese</b>	<b>270</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Nickel</b>	<b>30</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Potassium</b>	<b>2200</b>		29	1.8	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Selenium</b>	<b>0.80</b>		0.59	0.21	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Sodium</b>	<b>190</b>		59	7.9	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Thallium</b>	<b>0.44</b>	<b>J</b>	0.59	0.25	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Vanadium</b>	<b>15</b>		0.29	0.044	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1
<b>Zinc</b>	<b>45</b>		1.2	0.24	mg/Kg	☼	04/21/14 09:10	04/22/14 02:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.24</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:55	1
<b>Boron</b>	<b>1.1</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B11-3**

**Lab Sample ID: 500-75311-18**

Date Collected: 04/17/14 11:45

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:55	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:55	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:55	1
<b>Iron</b>	<b>2.7</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:55	1
<b>Manganese</b>	<b>0.056</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:55	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:55	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:55	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:55	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:55	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		04/21/14 15:00	04/22/14 15:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:51	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		04/21/14 16:00	04/22/14 11:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>		0.019	0.0076	mg/Kg	☆	04/24/14 14:24	04/28/14 10:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.63</b>		0.200	0.200	SU			04/26/14 23:56	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-3 Dup**

**Lab Sample ID: 500-75311-19**

Date Collected: 04/17/14 12:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0047	0.0020	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Bromomethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	04/18/14 07:35	04/22/14 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	04/18/14 07:35	04/22/14 22:46	1
Dibromofluoromethane	111		75 - 120	04/18/14 07:35	04/22/14 22:46	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	04/18/14 07:35	04/22/14 22:46	1
Toluene-d8 (Surr)	101		75 - 122	04/18/14 07:35	04/22/14 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-3 Dup**

**Lab Sample ID: 500-75311-19**

**Date Collected: 04/17/14 12:45**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 83.3**

**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	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
<b>2-Methylnaphthalene</b>	<b>0.032</b>	<b>J</b>	0.039	0.0071	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
<b>Acenaphthene</b>	<b>0.0085</b>	<b>J</b>	0.039	0.0070	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
<b>Phenanthrene</b>	<b>0.095</b>		0.039	0.0054	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
<b>Pyrene</b>	<b>0.020</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-3 Dup**

**Lab Sample ID: 500-75311-19**

Date Collected: 04/17/14 12:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.025</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
<b>Benzo[g,h,i]perylene</b>	<b>0.019</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:01	04/27/14 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	04/22/14 07:01	04/27/14 03:52	1
Phenol-d5	59		31 - 110	04/22/14 07:01	04/27/14 03:52	1
Nitrobenzene-d5	47		25 - 115	04/22/14 07:01	04/27/14 03:52	1
2-Fluorobiphenyl	60		25 - 119	04/22/14 07:01	04/27/14 03:52	1
2,4,6-Tribromophenol	37		35 - 137	04/22/14 07:01	04/27/14 03:52	1
Terphenyl-d14	73		36 - 134	04/22/14 07:01	04/27/14 03:52	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.66</b>	<b>J</b>	1.1	0.44	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Arsenic</b>	<b>7.8</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Barium</b>	<b>30</b>		0.55	0.059	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Beryllium</b>	<b>0.51</b>		0.22	0.044	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Boron</b>	<b>13</b>		2.8	0.55	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Cadmium</b>	<b>0.18</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Calcium</b>	<b>50000</b>		110	30	mg/Kg	☼	04/21/14 09:10	04/23/14 03:23	10
<b>Chromium</b>	<b>12</b>		0.55	0.064	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Cobalt</b>	<b>13</b>		0.28	0.055	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Copper</b>	<b>28</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Iron</b>	<b>16000</b>		11	4.5	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Lead</b>	<b>15</b>		0.28	0.082	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Magnesium</b>	<b>23000</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Manganese</b>	<b>300</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Nickel</b>	<b>31</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Potassium</b>	<b>2100</b>		28	1.7	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Selenium</b>	<b>0.99</b>		0.55	0.20	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Sodium</b>	<b>160</b>		55	7.4	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Thallium</b>	<b>0.51</b>	<b>J</b>	0.55	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Vanadium</b>	<b>14</b>		0.28	0.041	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1
<b>Zinc</b>	<b>43</b>		1.1	0.22	mg/Kg	☼	04/21/14 09:10	04/22/14 02:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 18:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 18:59	1
<b>Boron</b>	<b>0.79</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 18:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

**Client Sample ID: 2615-1-B09-3 Dup**

**Lab Sample ID: 500-75311-19**

Date Collected: 04/17/14 12:45

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 18:59	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:59	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:59	1
<b>Iron</b>	<b>1.1</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 18:59	1
<b>Manganese</b>	<b>0.033</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:59	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:59	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 18:59	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 18:59	1
<b>Zinc</b>	<b>0.12</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 18:59	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		04/21/14 15:00	04/22/14 15:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:54	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		04/21/14 16:00	04/22/14 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.029</b>		0.019	0.0076	mg/Kg	☆	04/24/14 14:24	04/28/14 10:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.60</b>		0.200	0.200	SU			04/27/14 00:27	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside 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
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.
F1	MS and/or MSD Recovery exceeds the control limits
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
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)



**REWS**  
RING INC

# CHAIN OF CUSTODY RECORD

<b>Client Co</b> 500-75311 COC	<b>Laboratory</b>	<b>Project Name:</b> <u>E9094 Chicago Cook Co</u>	<b>COC No.:</b> <u>1</u> of <u>3</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	<b>Project No.:</b> <u>IDOT2013-061</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 <b>Sampler:</b> <u>CF</u>	<b>Lab Job No.:</b> <u>500-75311</u> <b>Sample Temp:</b> <u>(3.9) (4.2) (3.7)</u>

**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 Total metal result exceeds MAC AND SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

ANALYSES												
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization		

**Matrix Key:**  
W: Water  
S: Soil  
SL: Sludge  
S: Sediment  
L: Leachate  
DW: Drinking Water  
OL: Oil  
O: Other

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
	<del>2615-1-B01</del>	<del>4/17</del>	<del>2:00</del>	<del>5</del>	<del>X</del>	<del>X</del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>		
	<del>2615-1-B01</del>	<del>4/17</del>	<del>2:00</del>	<del>5</del>	<del>X</del>	<del>X</del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>		
	<del>2615-1-B02</del>	<del>4/17</del>	<del>2:00</del>	<del>5</del>	<del>X</del>	<del>X</del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>		
1	2615-1-B03-1	4/17	2:00	5	X	X					X	X	X	X		0-8
2	2615-1-B03-2	↓	2:05	5	X	X					X	X	X	X		8-16
3	2615-1-B03-3	↓	2:10	5	X	X					X	X	X	X		16-24
4	2615-1-B04-1	↓	2:30	5	X	X					X	X	X	X		0-8
5	2615-1-B04-2	↓	2:35	5	X	X					X	X	X	X		8-16
6	2615-1-B04-3	↓	2:40	5	X	X					X	X	X	X		16-24
7	2615-1-B05	↓	1:55	5	X	X					X	X	X	X		0-4
	<del>2615-1-B06</del>	<del>4/17</del>	<del>2:00</del>	<del>5</del>	<del>X</del>	<del>X</del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>		
8	2615-1-B06	4/17	1:45	5	X	X					X	X	X	X		0-4

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/17/15 15:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/17/15 15:30</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/17/15 15:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/18/15 06:30</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

## CHAIN OF CUSTODY RECORD

<b>Client Contact</b>		<b>Laboratory</b>			Project Name: <u>190/94 CHICAGO COOK Co</u>				COC No.: <u>2</u> of <u>3</u>							
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Lab: <b>Test America - Chicago</b>			Project No.: <u>IDOT 2013-061</u>				Lab Job No.: <u>500-75311</u>							
		Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b>			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				Sample Temp:							
		Phone: <b>708-534-5200</b>			Sampler: <u>CF</u>											
		Contact: <b>Dick Wright</b>														
		email: <u>richard.wright@testamericainc.com</u>														
<b>Special Instructions:</b> 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.					<b>ANALYSES</b>					<b>Matrix Key:</b>						
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other
Lab ID	Sample ID	Sample Date	Sample Time	Matrix											Comments	
9	<u>2615-1-B07</u>	4/17	1:35	S	X	X					X	X	X	X	0-4	
	<del>2615-1-B08-1</del>															
	<del>2615-1-B08-2</del>															
	<del>2615-1-B08-3</del>															
10	<u>2615-1-B09-1</u>	4/17	12:35												0-8	
11	<u>2615-1-B09-2</u>		12:40												8-16	
12	<u>2615-1-B09-3</u>		12:45												16-24	
13	<u>2615-1-B10-1</u>		12:00												0-8	
14	<u>2615-1-B10-2</u>		12:05												8-16	
15	<u>2615-1-B10-3</u>		12:10												16-24	
16	<u>2615-1-B11-1</u>		11:35												0-8	
17	<u>2615-1-B11-2</u>		11:40	S	X	X					X	X	X	X	8-16	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/17/17/1530</u>			Received by: <u>[Signature]</u>				Date/Time: <u>4/14/1530</u>							
Relinquished by:		Date/Time:			Received by: <u>[Signature]</u>				Date/Time: <u>4/10/17 0630</u>							
Relinquished by:		Date/Time:			Received by:				Date/Time:							

## CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com					<b>Laboratory</b> Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com					Project Name: <u>TRIP CHICAGO Cook Co</u> Project No.: <u>IDOT2013-061</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 Sampler: <u>CF</u>					COC No.: <u>3</u> of <u>3</u> Lab Job No.: <u>500-75311</u> Sample Temp:				
<b>Special Instructions:</b> 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 Total metal result exceeds MAC AND SPLP result exceeds Class I Standard, run TCLP for that specific parameter.					<b>ANALYSES</b>										<b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other				
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			
18	2615-1-B11-3	4/17	11:45	S	X	X					X	X	X	X		16-241			
19	2615-1-B19-3 DUP		12:45	S	X	X					X	X	X	X		16-241			
Relinquished by: <u>[Signature]</u>					Date/Time: <u>4/17/14 11:58</u>					Received by: <u>[Signature]</u>					Date/Time: <u>4/17/14 1530</u>				
Relinquished by:					Date/Time:					Received by: <u>[Signature]</u>					Date/Time: <u>4/18/14 0630</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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

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

333 S. Halsted Street

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87675 Longitude: -87.64644

(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: 0316287026 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: IL

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: I-90/94 at I-290 (Circle Interchange)

Latitude: 41.87675 Longitude: -87.64644

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 2615-181-B01 WAS SAMPLED ADJACENT TO SITE No. 2615-181. SEE FIGURE 6 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75311-2

**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:

6/2/14  
Date:



P.E., L.P.G. Seal:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-181**

**National Hellenic Museum**

<b>Sample ID</b>	2615-181-B01	<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non-Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only
<b>Sample Depth (ft)</b>	0-4						
<b>Sample Date</b>	4/17/2014						
<b>PID</b>	0						
<b>Sample pH</b>	7.72						
<b>Matrix</b>	Soil						
<b>No Contaminants of Concern Noted.</b>							

# 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: 500-75311-2  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
5/5/2014 2:47:28 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

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3

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-2

**Client Sample ID: 2615-181-B01**

**Lab Sample ID: 500-75311-20**

**Date Collected: 04/17/14 08:25**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	04/18/14 07:35	04/23/14 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	04/18/14 07:35	04/23/14 17:47	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/23/14 17:47	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	04/18/14 07:35	04/23/14 17:47	1
Toluene-d8 (Surr)	103		75 - 122	04/18/14 07:35	04/23/14 17:47	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	☼	04/22/14 07:01	04/27/14 04:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-2

**Client Sample ID: 2615-181-B01**

**Lab Sample ID: 500-75311-20**

**Date Collected: 04/17/14 08:25**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 82.6**

**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	☼	04/22/14 07:01	04/27/14 04:16	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>2-Methylnaphthalene</b>	<b>0.036</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Fluorene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Phenanthrene</b>	<b>0.19</b>		0.039	0.0055	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Anthracene</b>	<b>0.029</b>	<b>J</b>	0.039	0.0066	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Fluoranthene</b>	<b>0.12</b>		0.039	0.0073	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Pyrene</b>	<b>0.16</b>		0.039	0.0078	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Benzo[a]anthracene</b>	<b>0.075</b>		0.039	0.0053	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-2

**Client Sample ID: 2615-181-B01**

**Lab Sample ID: 500-75311-20**

Date Collected: 04/17/14 08:25

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.094</b>		0.039	0.011	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Benzo[b]fluoranthene</b>	<b>0.079</b>		0.039	0.0085	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Benzo[k]fluoranthene</b>	<b>0.031</b>	<b>J</b>	0.039	0.012	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Benzo[a]pyrene</b>	<b>0.058</b>		0.039	0.0076	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.038</b>	<b>J</b>	0.039	0.010	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
<b>Benzo[g,h,i]perylene</b>	<b>0.054</b>		0.039	0.013	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:01	04/27/14 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	04/22/14 07:01	04/27/14 04:16	1
Phenol-d5	72		31 - 110	04/22/14 07:01	04/27/14 04:16	1
Nitrobenzene-d5	59		25 - 115	04/22/14 07:01	04/27/14 04:16	1
2-Fluorobiphenyl	70		25 - 119	04/22/14 07:01	04/27/14 04:16	1
2,4,6-Tribromophenol	45		35 - 137	04/22/14 07:01	04/27/14 04:16	1
Terphenyl-d14	86		36 - 134	04/22/14 07:01	04/27/14 04:16	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Arsenic</b>	<b>6.9</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Barium</b>	<b>33</b>		0.58	0.062	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Beryllium</b>	<b>0.49</b>		0.23	0.046	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Boron</b>	<b>12</b>		2.9	0.58	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Cadmium</b>	<b>0.19</b>	<b>B</b>	0.12	0.015	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Calcium</b>	<b>56000</b>		120	31	mg/Kg	☼	04/21/14 09:10	04/23/14 03:27	10
<b>Chromium</b>	<b>14</b>		0.58	0.067	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Cobalt</b>	<b>11</b>		0.29	0.058	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Copper</b>	<b>27</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Iron</b>	<b>15000</b>		12	4.8	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Lead</b>	<b>15</b>		0.29	0.087	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Magnesium</b>	<b>25000</b>	<b>B</b>	5.8	1.2	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Manganese</b>	<b>320</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Nickel</b>	<b>28</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Potassium</b>	<b>2000</b>		29	1.7	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Selenium</b>	<b>0.83</b>		0.58	0.21	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Sodium</b>	<b>620</b>		58	7.8	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Thallium</b>	<b>0.54</b>	<b>J</b>	0.58	0.25	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Vanadium</b>	<b>14</b>		0.29	0.043	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1
<b>Zinc</b>	<b>49</b>		1.2	0.23	mg/Kg	☼	04/21/14 09:10	04/22/14 02:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.22</b>	<b>J B</b>	0.50	0.050	mg/L		04/21/14 15:00	04/22/14 19:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 15:00	04/22/14 19:03	1
<b>Boron</b>	<b>1.1</b>	<b>B</b>	0.70	0.050	mg/L		04/21/14 15:00	04/22/14 19:03	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-2

**Client Sample ID: 2615-181-B01**

**Lab Sample ID: 500-75311-20**

Date Collected: 04/17/14 08:25

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 15:00	04/22/14 19:03	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 19:03	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 19:03	1
<b>Iron</b>	<b>0.80</b>		0.20	0.20	mg/L		04/21/14 15:00	04/22/14 19:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 15:00	04/22/14 19:03	1
<b>Manganese</b>	<b>0.027</b>		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 19:03	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 19:03	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 15:00	04/22/14 19:03	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 15:00	04/22/14 19:03	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.20	0.020	mg/L		04/21/14 15:00	04/22/14 19:03	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		04/21/14 15:00	04/22/14 15:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 15:00	04/22/14 15:57	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		04/21/14 16:00	04/22/14 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
<b>Mercury</b>	<b>0.024</b>		0.018	0.0069	mg/Kg	☆	04/24/14 14:24	04/28/14 10:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.72</b>		0.200	0.200	SU			04/27/14 00:57	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-2

## Qualifiers

### GC/MS Semi VOA

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.
X	Surrogate is outside control 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.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
$\alpha$	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project Name: <u>I90/94 Chicago Cook</u> Project No.: <u>IDOT 2013-061</u> TAT: <del>15 BD</del> <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CP</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-75311</u> Sample Temp:
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**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												
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization		

**Matrix Key:**  
W: Water  
S: Soil  
SL: Sludge  
L: Leachate  
DW: Drinking Water  
OL: Oil  
O: Other

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
20	2615-181-B01	4/17	8:25	S	X	X					X	X	X	X				0=4'
	<del>2615-181-B01-DLP</del>			<del>S</del>	<del>X</del>	<del>X</del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/17/14/1530</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/17/14/1530</u>
Relinquished by:	Date/Time:	Received by: <u>[Signature]</u>	Date/Time: <u>4/18/14 0630</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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
833-843 W. Van Buren St. and 400-418 S. Green St.

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87601 Longitude: -87.64845  
(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: IL

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: I-90/94 at I-290 (Circle Interchange)Latitude: 41.87601 Longitude: -87.64845Uncontaminated 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 2615-211-B01 WAS SAMPLED ADJACENT TO SITE No. 2615-211. SEE FIGURE 6 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75386-1

**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 EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/2/14

Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-211  
Mixed Use Building

Sample ID	2615-211-B01-1	2615-211-B01-2	2615-211-B01-3	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)	0-8	8-16	16-24							
Sample Date	4/18/2014	4/18/2014	4/18/2014							
PID	0	0	0							
Sample pH	8.4	7.8	8.1							
Matrix	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	0.47	1,2,*	ND	ND	0.09	0.09	0.98	1.3	2.1	NA
Dibenzo(a,h)anthracene	0.11	1,2,*	ND	ND	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: 500-75386-1  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
4/30/2014 4:59:01 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-1**

**Lab Sample ID: 500-75386-1**

Date Collected: 04/18/14 08:45

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Bromomethane	<0.0052	*	0.0052	0.0016	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Chloroethane	<0.0052	*	0.0052	0.0014	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
1,1-Dichloroethane	<0.0052		0.0052	0.00081	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
1,2-Dichloroethane	<0.0052		0.0052	0.00076	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
1,1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00092	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	04/18/14 15:25	04/21/14 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 122	04/18/14 15:25	04/21/14 16:27	1
Dibromofluoromethane	113		75 - 120	04/18/14 15:25	04/21/14 16:27	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	04/18/14 15:25	04/21/14 16:27	1
Toluene-d8 (Surr)	98		75 - 122	04/18/14 15:25	04/21/14 16:27	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	☼	04/25/14 07:28	04/29/14 14:12	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-1**

**Lab Sample ID: 500-75386-1**

**Date Collected: 04/18/14 08:45**

**Matrix: Solid**

**Date Received: 04/18/14 15:00**

**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	☼	04/25/14 07:28	04/29/14 14:12	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Naphthalene</b>	<b>0.057</b>		0.034	0.0053	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>2-Methylnaphthalene</b>	<b>0.017 J</b>		0.034	0.0063	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Acenaphthylene</b>	<b>0.15</b>		0.034	0.0045	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Fluorene</b>	<b>0.020 J</b>		0.034	0.0048	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Pentachlorophenol	<0.70		0.70	0.55	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.28	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Phenanthrene</b>	<b>0.12</b>		0.034	0.0048	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Anthracene</b>	<b>0.056</b>		0.034	0.0058	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Carbazole	<0.17		0.17	0.089	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Fluoranthene</b>	<b>0.30</b>		0.034	0.0064	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Pyrene</b>	<b>0.41</b>		0.034	0.0069	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Benzo[a]anthracene</b>	<b>0.32</b>		0.034	0.0046	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-1**

**Lab Sample ID: 500-75386-1**

Date Collected: 04/18/14 08:45

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.30</b>		0.034	0.0094	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Benzo[b]fluoranthene</b>	<b>0.56</b>		0.034	0.0074	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Benzo[k]fluoranthene</b>	<b>0.28</b>		0.034	0.010	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Benzo[a]pyrene</b>	<b>0.47</b>		0.034	0.0067	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.39</b>		0.034	0.0089	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Dibenz(a,h)anthracene</b>	<b>0.11</b>		0.034	0.0067	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
<b>Benzo[g,h,i]perylene</b>	<b>0.64</b>		0.034	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	04/25/14 07:28	04/29/14 14:12	1
Phenol-d5	65		31 - 110	04/25/14 07:28	04/29/14 14:12	1
Nitrobenzene-d5	59		25 - 115	04/25/14 07:28	04/29/14 14:12	1
2-Fluorobiphenyl	67		25 - 119	04/25/14 07:28	04/29/14 14:12	1
2,4,6-Tribromophenol	75		35 - 137	04/25/14 07:28	04/29/14 14:12	1
Terphenyl-d14	76		36 - 134	04/25/14 07:28	04/29/14 14:12	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Arsenic</b>	<b>4.6</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Barium</b>	<b>13</b>		0.52	0.055	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Beryllium</b>	<b>0.15</b>	<b>J</b>	0.21	0.041	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Boron</b>	<b>3.0</b>		2.6	0.52	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Cadmium</b>	<b>0.28</b>	<b>B</b>	0.10	0.013	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Calcium</b>	<b>15000</b>	<b>B</b>	10	2.8	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Chromium</b>	<b>4.1</b>		0.52	0.060	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Cobalt</b>	<b>3.6</b>		0.26	0.052	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Copper</b>	<b>12</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Iron</b>	<b>6900</b>		10	4.2	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Lead</b>	<b>23</b>		0.26	0.077	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Magnesium</b>	<b>8200</b>		5.2	1.1	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Manganese</b>	<b>140</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Nickel</b>	<b>6.9</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Potassium</b>	<b>340</b>		26	1.6	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Selenium</b>	<b>0.20</b>	<b>J B</b>	0.52	0.18	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Sodium</b>	<b>65</b>	<b>B</b>	52	6.9	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Vanadium</b>	<b>9.0</b>		0.26	0.038	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1
<b>Zinc</b>	<b>41</b>		1.0	0.21	mg/Kg	☼	04/22/14 08:45	04/22/14 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L	☼	04/28/14 07:30	04/28/14 18:51	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-1**

**Lab Sample ID: 500-75386-1**

Date Collected: 04/18/14 08:45

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 17:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 17:49	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 17:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 17:49	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 17:49	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 17:49	1
<b>Iron</b>	<b>2.5</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 17:49	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 17:49	1
<b>Manganese</b>	<b>0.033</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 17:49	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 17:49	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 17:49	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 17:49	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 17:49	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		04/22/14 13:30	04/23/14 14:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 14:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00014</b>	<b>J</b>	0.00020	0.00010	mg/L		04/23/14 17:55	04/28/14 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.10</b>		0.016	0.0062	mg/Kg	✱	04/28/14 08:00	04/28/14 12:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.40</b>		0.200	0.200	SU			04/28/14 14:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-2**

**Lab Sample ID: 500-75386-2**

Date Collected: 04/18/14 08:50

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 84.8

**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	☼	04/18/14 15:25	04/21/14 16:50	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Bromomethane	<0.0045	*	0.0045	0.0014	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	04/18/14 15:25	04/21/14 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122	04/18/14 15:25	04/21/14 16:50	1
Dibromofluoromethane	112		75 - 120	04/18/14 15:25	04/21/14 16:50	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/18/14 15:25	04/21/14 16:50	1
Toluene-d8 (Surr)	98		75 - 122	04/18/14 15:25	04/21/14 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-2**

**Lab Sample ID: 500-75386-2**

**Date Collected: 04/18/14 08:50**

**Matrix: Solid**

**Date Received: 04/18/14 15:00**

**Percent Solids: 84.8**

**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	☼	04/25/14 07:28	04/29/14 14:36	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
<b>2-Methylnaphthalene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
<b>Fluorene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
<b>Phenanthrene</b>	<b>0.11</b>		0.038	0.0053	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
<b>Pyrene</b>	<b>0.021</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-2**

**Lab Sample ID: 500-75386-2**

Date Collected: 04/18/14 08:50

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.028</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
<b>Benzo[g,h,i]perylene</b>	<b>0.019</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/25/14 07:28	04/29/14 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	04/25/14 07:28	04/29/14 14:36	1
Phenol-d5	53		31 - 110	04/25/14 07:28	04/29/14 14:36	1
Nitrobenzene-d5	45		25 - 115	04/25/14 07:28	04/29/14 14:36	1
2-Fluorobiphenyl	45		25 - 119	04/25/14 07:28	04/29/14 14:36	1
2,4,6-Tribromophenol	61		35 - 137	04/25/14 07:28	04/29/14 14:36	1
Terphenyl-d14	67		36 - 134	04/25/14 07:28	04/29/14 14:36	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Arsenic</b>	<b>7.6</b>		0.59	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Barium</b>	<b>34</b>		0.59	0.063	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.047	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Boron</b>	<b>9.8</b>		2.9	0.59	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Cadmium</b>	<b>0.21</b>	<b>B</b>	0.12	0.015	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Calcium</b>	<b>59000</b>	<b>B</b>	120	32	mg/Kg	☼	04/22/14 08:45	04/23/14 15:49	10
<b>Chromium</b>	<b>14</b>		0.59	0.068	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Cobalt</b>	<b>14</b>		0.29	0.059	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Copper</b>	<b>31</b>		0.59	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Iron</b>	<b>19000</b>		12	4.8	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Lead</b>	<b>16</b>		0.29	0.088	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Magnesium</b>	<b>22000</b>		5.9	1.2	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Manganese</b>	<b>310</b>		0.59	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Nickel</b>	<b>35</b>		0.59	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Potassium</b>	<b>2100</b>		29	1.8	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Selenium</b>	<b>0.54</b>	<b>J B</b>	0.59	0.21	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Sodium</b>	<b>280</b>	<b>B</b>	59	7.9	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Thallium</b>	<b>0.29</b>	<b>J</b>	0.59	0.25	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Vanadium</b>	<b>15</b>		0.29	0.043	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1
<b>Zinc</b>	<b>52</b>		1.2	0.24	mg/Kg	☼	04/22/14 08:45	04/22/14 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 18:05	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 18:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-2**

**Lab Sample ID: 500-75386-2**

Date Collected: 04/18/14 08:50

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 18:05	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:05	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:05	1
<b>Iron</b>	<b>0.30</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 18:05	1
<b>Manganese</b>	<b>0.035</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:05	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:05	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 18:05	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:05	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 18:05	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		04/22/14 13:30	04/23/14 14:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 14:27	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		04/23/14 17:55	04/28/14 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.018</b>		0.017	0.0068	mg/Kg	☆	04/28/14 08:00	04/28/14 13:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.80</b>		0.200	0.200	SU			04/28/14 14:07	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-3**

**Lab Sample ID: 500-75386-3**

Date Collected: 04/18/14 08:55

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Bromomethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	04/18/14 15:25	04/21/14 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 122	04/18/14 15:25	04/21/14 17:12	1
Dibromofluoromethane	112		75 - 120	04/18/14 15:25	04/21/14 17:12	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/18/14 15:25	04/21/14 17:12	1
Toluene-d8 (Surr)	96		75 - 122	04/18/14 15:25	04/21/14 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-3**

**Lab Sample ID: 500-75386-3**

Date Collected: 04/18/14 08:55

Matrix: Solid

Date Received: 04/18/14 15:00

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	0.046	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
<b>2-Methylnaphthalene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0071	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
<b>Phenanthrene</b>	<b>0.12</b>		0.039	0.0054	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
<b>Pyrene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-3**

**Lab Sample ID: 500-75386-3**

Date Collected: 04/18/14 08:55

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.028</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
<b>Benzo[g,h,i]perylene</b>	<b>0.023</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/25/14 07:28	04/29/14 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110	04/25/14 07:28	04/29/14 14:59	1
Phenol-d5	51		31 - 110	04/25/14 07:28	04/29/14 14:59	1
Nitrobenzene-d5	38		25 - 115	04/25/14 07:28	04/29/14 14:59	1
2-Fluorobiphenyl	50		25 - 119	04/25/14 07:28	04/29/14 14:59	1
2,4,6-Tribromophenol	48		35 - 137	04/25/14 07:28	04/29/14 14:59	1
Terphenyl-d14	66		36 - 134	04/25/14 07:28	04/29/14 14:59	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Arsenic</b>	<b>7.2</b>		0.59	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Barium</b>	<b>33</b>		0.59	0.063	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.047	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Boron</b>	<b>11</b>		3.0	0.59	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Cadmium</b>	<b>0.18</b>	<b>B</b>	0.12	0.015	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Calcium</b>	<b>56000</b>	<b>B</b>	120	32	mg/Kg	☼	04/22/14 08:45	04/23/14 15:53	10
<b>Chromium</b>	<b>14</b>		0.59	0.069	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Cobalt</b>	<b>13</b>		0.30	0.059	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Copper</b>	<b>29</b>		0.59	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Iron</b>	<b>19000</b>		12	4.9	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Lead</b>	<b>17</b>		0.30	0.088	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Magnesium</b>	<b>22000</b>		5.9	1.2	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Manganese</b>	<b>320</b>		0.59	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Nickel</b>	<b>34</b>		0.59	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Potassium</b>	<b>2200</b>		30	1.8	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Selenium</b>	<b>1.1</b>	<b>B</b>	0.59	0.21	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Sodium</b>	<b>180</b>	<b>B</b>	59	7.9	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Thallium</b>	<b>0.67</b>		0.59	0.25	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Vanadium</b>	<b>15</b>		0.30	0.044	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1
<b>Zinc</b>	<b>52</b>		1.2	0.24	mg/Kg	☼	04/22/14 08:45	04/22/14 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 18:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 18:09	1
<b>Boron</b>	<b>0.66</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 18:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B01-3**

**Lab Sample ID: 500-75386-3**

Date Collected: 04/18/14 08:55

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 18:09	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:09	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:09	1
<b>Iron</b>	<b>0.60</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 18:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 18:09	1
<b>Manganese</b>	<b>0.030</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:09	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:09	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 18:09	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:09	1
<b>Zinc</b>	<b>0.10</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 18:09	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		04/22/14 13:30	04/23/14 14:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 14:30	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		04/23/14 17:55	04/28/14 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.023</b>		0.018	0.0072	mg/Kg	☆	04/28/14 08:00	04/28/14 13:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.10</b>		0.200	0.200	SU			04/28/14 14:09	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B02-1**

**Lab Sample ID: 500-75386-4**

**Date Collected: 04/18/14 08:30**

**Matrix: Solid**

**Date Received: 04/18/14 15:00**

**Percent Solids: 90.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.32		0.32	0.084	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
<b>Benzene</b>	<b>0.072</b>		0.016	0.0048	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Bromodichloromethane	<0.13		0.13	0.022	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Bromoform	<0.13		0.13	0.029	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Bromomethane	<0.13		0.13	0.044	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
2-Butanone (MEK)	<0.32		0.32	0.096	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Carbon disulfide	<0.32		0.32	0.028	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Carbon tetrachloride	<0.065		0.065	0.017	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Chlorobenzene	<0.065		0.065	0.0093	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Chloroethane	<0.13		0.13	0.028	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Chloroform	<0.065		0.065	0.013	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Chloromethane	<0.13		0.13	0.030	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
cis-1,2-Dichloroethene	<0.065		0.065	0.0080	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
cis-1,3-Dichloropropene	<0.065		0.065	0.012	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Dibromochloromethane	<0.13		0.13	0.022	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
1,1-Dichloroethane	<0.065		0.065	0.012	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
1,2-Dichloroethane	<0.065		0.065	0.019	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
1,1-Dichloroethene	<0.065		0.065	0.020	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
1,2-Dichloropropane	<0.065		0.065	0.013	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
1,3-Dichloropropene, Total	<0.065		0.065	0.012	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Ethylbenzene	<0.016		0.016	0.0082	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
2-Hexanone	<0.32		0.32	0.037	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Methylene Chloride	<0.32		0.32	0.044	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
4-Methyl-2-pentanone (MIBK)	<0.32		0.32	0.022	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Methyl tert-butyl ether	<0.13		0.13	0.028	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Styrene	<0.065		0.065	0.0064	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
1,1,2,2-Tetrachloroethane	<0.065		0.065	0.015	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Tetrachloroethene	<0.065		0.065	0.011	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
<b>Toluene</b>	<b>0.084</b>		0.016	0.0075	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
trans-1,2-Dichloroethene	<0.065		0.065	0.016	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
trans-1,3-Dichloropropene	<0.065 *		0.065	0.014	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
1,1,1-Trichloroethane	<0.065		0.065	0.013	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
1,1,2-Trichloroethane	<0.065		0.065	0.018	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
<b>Trichloroethene</b>	<b>0.064</b>		0.032	0.012	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Vinyl acetate	<0.13		0.13	0.022	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
Vinyl chloride	<0.016		0.016	0.0068	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50
<b>Xylenes, Total</b>	<b>0.049</b>		0.032	0.0044	mg/Kg	☼	04/18/14 08:30	04/25/14 04:36	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 120	04/18/14 08:30	04/25/14 04:36	50
Dibromofluoromethane	88		75 - 120	04/18/14 08:30	04/25/14 04:36	50
1,2-Dichloroethane-d4 (Surr)	94		75 - 125	04/18/14 08:30	04/25/14 04:36	50
Toluene-d8 (Surr)	89		75 - 120	04/18/14 08:30	04/25/14 04:36	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.88		0.88	0.39	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Bis(2-chloroethyl)ether	<0.88		0.88	0.26	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
1,3-Dichlorobenzene	<0.88		0.88	0.20	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
1,4-Dichlorobenzene	<0.88		0.88	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B02-1**

**Lab Sample ID: 500-75386-4**

**Date Collected: 04/18/14 08:30**

**Matrix: Solid**

**Date Received: 04/18/14 15:00**

**Percent Solids: 90.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.88		0.88	0.21	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2-Methylphenol	<0.88		0.88	0.28	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2,2'-oxybis[1-chloropropane]	<0.88		0.88	0.20	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
N-Nitrosodi-n-propylamine	<0.88		0.88	0.21	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Hexachloroethane	<0.88		0.88	0.27	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2-Chlorophenol	<0.88		0.88	0.30	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Nitrobenzene	<0.17		0.17	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Bis(2-chloroethoxy)methane	<0.88		0.88	0.18	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
1,2,4-Trichlorobenzene	<0.88		0.88	0.19	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Isophorone	<0.88		0.88	0.20	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2,4-Dimethylphenol	<1.7		1.7	0.66	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Hexachlorobutadiene	<0.88		0.88	0.27	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Naphthalene</b>	<b>1.2</b>		0.17	0.027	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2,4-Dichlorophenol	<1.7		1.7	0.42	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
4-Chloroaniline	<3.5		3.5	0.82	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2,4,6-Trichlorophenol	<1.7		1.7	0.60	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2,4,5-Trichlorophenol	<1.7		1.7	0.40	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Hexachlorocyclopentadiene	<3.5		3.5	1.0	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>2-Methylnaphthalene</b>	<b>0.98</b>		0.17	0.032	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2-Nitroaniline	<0.88		0.88	0.24	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2-Chloronaphthalene	<0.88		0.88	0.19	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
4-Chloro-3-methylphenol	<1.7		1.7	0.60	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2,6-Dinitrotoluene	<0.88		0.88	0.34	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2-Nitrophenol	<1.7		1.7	0.41	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
3-Nitroaniline	<1.7		1.7	0.54	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Dimethyl phthalate	<0.88		0.88	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2,4-Dinitrophenol	<3.5		3.5	3.1	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Acenaphthylene</b>	<b>0.086 J</b>		0.17	0.023	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
2,4-Dinitrotoluene	<0.88		0.88	0.28	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Acenaphthene</b>	<b>1.7</b>		0.17	0.031	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Dibenzofuran</b>	<b>1.9</b>		0.88	0.20	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
4-Nitrophenol	<3.5		3.5	1.7	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Fluorene</b>	<b>2.4</b>		0.17	0.025	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
4-Nitroaniline	<1.7		1.7	0.73	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
4-Bromophenyl phenyl ether	<0.88		0.88	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Hexachlorobenzene	<0.35		0.35	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Diethyl phthalate	<0.88		0.88	0.30	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
4-Chlorophenyl phenyl ether	<0.88		0.88	0.20	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Pentachlorophenol	<3.5		3.5	2.8	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
N-Nitrosodiphenylamine	<0.88		0.88	0.21	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
4,6-Dinitro-2-methylphenol	<1.7		1.7	1.4	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Anthracene</b>	<b>4.3</b>		0.17	0.029	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Carbazole</b>	<b>1.3</b>		0.88	0.45	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Di-n-butyl phthalate	<0.88		0.88	0.27	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Fluoranthene</b>	<b>8.1</b>		0.17	0.032	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Pyrene</b>	<b>8.0</b>		0.17	0.035	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Butyl benzyl phthalate	<0.88		0.88	0.33	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Benzo[a]anthracene</b>	<b>4.6</b>		0.17	0.024	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Chrysene</b>	<b>3.8</b>		0.17	0.048	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

**Client Sample ID: 2615-211-B02-1**

**Lab Sample ID: 500-75386-4**

Date Collected: 04/18/14 08:30

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.88		0.88	0.24	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Bis(2-ethylhexyl) phthalate	<0.88		0.88	0.32	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
Di-n-octyl phthalate	<0.88		0.88	0.29	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Benzo[b]fluoranthene</b>	<b>4.0</b>		0.17	0.038	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Benzo[k]fluoranthene</b>	<b>1.3</b>		0.17	0.052	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Benzo[a]pyrene</b>	<b>3.1</b>		0.17	0.034	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>1.3</b>		0.17	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Dibenz(a,h)anthracene</b>	<b>0.48</b>		0.17	0.034	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
<b>Benzo(g,h,i)perylene</b>	<b>1.4</b>		0.17	0.056	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5
3 & 4 Methylphenol	<0.88		0.88	0.29	mg/Kg	☼	04/25/14 07:28	04/29/14 15:22	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	04/25/14 07:28	04/29/14 15:22	5
Phenol-d5	71		31 - 110	04/25/14 07:28	04/29/14 15:22	5
Nitrobenzene-d5	58		25 - 115	04/25/14 07:28	04/29/14 15:22	5
2-Fluorobiphenyl	72		25 - 119	04/25/14 07:28	04/29/14 15:22	5
2,4,6-Tribromophenol	68		35 - 137	04/25/14 07:28	04/29/14 15:22	5
Terphenyl-d14	74		36 - 134	04/25/14 07:28	04/29/14 15:22	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Phenanthrene</b>	<b>12</b>		0.87	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 20:28	25

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Arsenic</b>	<b>6.9</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Barium</b>	<b>28</b>		0.52	0.056	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Beryllium</b>	<b>0.32</b>		0.21	0.042	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Boron</b>	<b>12</b>		2.6	0.52	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Cadmium</b>	<b>0.68</b>	<b>B</b>	0.10	0.013	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Calcium</b>	<b>14000</b>	<b>B</b>	10	2.8	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Chromium</b>	<b>5.7</b>		0.52	0.060	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Cobalt</b>	<b>3.6</b>		0.26	0.052	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Copper</b>	<b>4200</b>		5.2	1.0	mg/Kg	☼	04/22/14 08:45	04/23/14 15:57	10
<b>Iron</b>	<b>6200</b>		10	4.3	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Lead</b>	<b>67</b>		0.26	0.077	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Magnesium</b>	<b>6300</b>		5.2	1.1	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Manganese</b>	<b>98</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Nickel</b>	<b>9.9</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Potassium</b>	<b>460</b>		26	1.6	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Selenium</b>	<b>0.54</b>	<b>B</b>	0.52	0.18	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Silver</b>	<b>1.0</b>		0.26	0.019	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Sodium</b>	<b>240</b>	<b>B</b>	52	7.0	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Vanadium</b>	<b>11</b>		0.26	0.038	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1
<b>Zinc</b>	<b>970</b>		1.0	0.21	mg/Kg	☼	04/22/14 08:45	04/22/14 18:40	1

TestAmerica Chicago

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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.
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.
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.

## 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
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


<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project Name: <u>I 90/94 Chicago Cook</u> Project No.: <u>IDOT 2013-061</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CF / CRM</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-75386</u> Sample Temp: <u>24.27</u>
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**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.



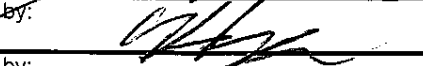

### ANALYSES

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					
1	2615-211-B01-1	4/18	8:45	S	X	X					X	X	X	X						
2	2615-211-B01-2		8:50																	
3	2615-211-B01-3		8:55																	
4	2615-211-B02-1		8:30																	
5	2615-211-B02-2		8:35																	
6	2615-211-B02-3		8:40																	
7	2615-211-B03-1		8:00																	
8	2615-211-B03-1 DUP		8:15																	
9	2615-211-B03-2		8:05																	
10	2615-211-B03-3	✓	8:10	S	X	X					X	X	X	X						

**Matrix Key:**

  
 500-75386 COC ter  
 O: Other

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	
1	2615-211-B01-1	4/18	8:45	S	X	X					X	X	X	X							0-8
2	2615-211-B01-2		8:50																		8-16
3	2615-211-B01-3		8:55																		16-24
4	2615-211-B02-1		8:30																		0-8
5	2615-211-B02-2		8:35																		8-16
6	2615-211-B02-3		8:40																		16-24
7	2615-211-B03-1		8:00																		0-8
8	2615-211-B03-1 DUP		8:15																		16-24
9	2615-211-B03-2		8:05																		8-16
10	2615-211-B03-3	✓	8:10	S	X	X					X	X	X	X							16-24

Relinquished by: 	Date/Time: 4/18/14 1400	Received by: 	Date/Time: 4/18/14 1400
Relinquished by: 	Date/Time: 4/18/14 1500	Received by: 	Date/Time: 4/18/14 1500
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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
815-821 W. Van Buren St. and 405 S. Green St.

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87608 Longitude: -87.64784  
(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: 0316005860 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: IL

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: I-90/94 at I-290 (Circle Interchange)

Latitude: 41.87608 Longitude: -87.64784

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 2615-212-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE No. 2615-212. SEE FIGURE 6 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75386-2

**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:

6/2/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-212  
The Rice Building

Sample ID	2615-212-B01-1	2615-212-B01-2	2615-212-B01-3	2615-212-B02-1	2615-212-B02-2	2615-212-B02-3	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)	0-8	8-16	16-24	0-8	8-16	16-24							
Sample Date	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014							
PID	0	0	0	0	0	0							
Sample pH	8.39	8.21	8.34	8.64	7.9	8.01							
Matrix	Soil	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)													
Benzo(a)anthracene	1.5	1,2,3,4,7	ND	ND	0.35	ND	ND	0.9	0.9	0.9	1.1	1.8	NA
Benzo(a)pyrene	1.2	1,2,3,7	ND	ND	0.29	1,2,*	ND	0.09	0.09	0.98	1.3	2.1	NA
Benzo(b)fluoranthene	1.5	1,2,3,7	ND	ND	0.44		ND	0.9	0.9	0.9	1.5	2.1	NA
Dibenzo(a,h)anthracene	0.21	1,2,3,4,7	ND	ND	0.046		ND	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: 500-75386-2  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
4/30/2014 4:59:45 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-1**

**Lab Sample ID: 500-75386-11**

Date Collected: 04/18/14 09:50

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0022	J	0.0040	0.0017	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Bromomethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Chloroethane	<0.0040	*	0.0040	0.0011	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
1,1,1-Dichloroethane	<0.0040		0.0040	0.00065	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	04/18/14 15:25	04/21/14 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 122	04/18/14 15:25	04/21/14 19:52	1
Dibromofluoromethane	118		75 - 120	04/18/14 15:25	04/21/14 19:52	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	04/18/14 15:25	04/21/14 19:52	1
Toluene-d8 (Surr)	103		75 - 122	04/18/14 15:25	04/21/14 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-1**

**Lab Sample ID: 500-75386-11**

**Date Collected: 04/18/14 09:50**

**Matrix: Solid**

**Date Received: 04/18/14 15:00**

**Percent Solids: 87.1**

**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	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Naphthalene</b>	<b>0.016</b>	<b>J</b>	0.037	0.0058	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>2-Methylnaphthalene</b>	<b>0.018</b>	<b>J</b>	0.037	0.0069	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Acenaphthylene</b>	<b>0.014</b>	<b>J</b>	0.037	0.0049	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Acenaphthene</b>	<b>0.053</b>		0.037	0.0067	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Fluorene</b>	<b>0.048</b>		0.037	0.0053	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Phenanthrene</b>	<b>0.84</b>		0.037	0.0052	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Anthracene</b>	<b>0.24</b>		0.037	0.0063	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Fluoranthene</b>	<b>1.9</b>		0.037	0.0070	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Benzo[a]anthracene</b>	<b>1.5</b>		0.037	0.0051	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Chrysene</b>	<b>1.4</b>		0.037	0.010	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-1**

**Lab Sample ID: 500-75386-11**

Date Collected: 04/18/14 09:50

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Benzo[b]fluoranthene</b>	<b>1.5</b>		0.037	0.0081	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Benzo[k]fluoranthene</b>	<b>0.54</b>		0.037	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Benzo[a]pyrene</b>	<b>1.2</b>		0.037	0.0073	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.55</b>		0.037	0.0097	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Dibenz(a,h)anthracene</b>	<b>0.21</b>		0.037	0.0073	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
<b>Benzo[g,h,i]perylene</b>	<b>0.69</b>		0.037	0.012	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	04/25/14 07:28	04/29/14 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	04/25/14 07:28	04/29/14 18:07	1
Phenol-d5	62		31 - 110	04/25/14 07:28	04/29/14 18:07	1
Nitrobenzene-d5	50		25 - 115	04/25/14 07:28	04/29/14 18:07	1
2-Fluorobiphenyl	63		25 - 119	04/25/14 07:28	04/29/14 18:07	1
2,4,6-Tribromophenol	57		35 - 137	04/25/14 07:28	04/29/14 18:07	1
Terphenyl-d14	75		36 - 134	04/25/14 07:28	04/29/14 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Pyrene</b>	<b>3.1</b>		0.19	0.037	mg/Kg	☼	04/25/14 07:28	04/29/14 20:49	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	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Arsenic</b>	<b>8.0</b>		0.55	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Barium</b>	<b>31</b>		0.55	0.059	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Beryllium</b>	<b>0.57</b>		0.22	0.044	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Boron</b>	<b>10</b>		2.8	0.55	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Cadmium</b>	<b>0.21</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Calcium</b>	<b>30000</b>	<b>B</b>	11	3.0	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Chromium</b>	<b>13</b>		0.55	0.064	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Cobalt</b>	<b>14</b>		0.28	0.055	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Copper</b>	<b>32</b>		0.55	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Iron</b>	<b>17000</b>		11	4.5	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Lead</b>	<b>21</b>		0.28	0.082	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Magnesium</b>	<b>16000</b>		5.5	1.1	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Manganese</b>	<b>260</b>		0.55	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Nickel</b>	<b>33</b>		0.55	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Potassium</b>	<b>2100</b>		28	1.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Selenium</b>	<b>0.67</b>	<b>B</b>	0.55	0.20	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Sodium</b>	<b>120</b>	<b>B</b>	55	7.4	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Thallium</b>	<b>0.30</b>	<b>J</b>	0.55	0.23	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Vanadium</b>	<b>14</b>		0.28	0.041	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1
<b>Zinc</b>	<b>52</b>		1.1	0.22	mg/Kg	☼	04/22/14 08:45	04/22/14 19:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-1**

**Lab Sample ID: 500-75386-11**

Date Collected: 04/18/14 09:50

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 18:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 18:49	1
<b>Boron</b>	<b>0.84</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 18:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 18:49	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:49	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:49	1
Iron	<0.20		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 18:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 18:49	1
Manganese	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:49	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:49	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 18:49	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:49	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 18:49	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		04/22/14 13:30	04/23/14 14:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 14:59	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		04/23/14 17:55	04/28/14 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.076</b>		0.016	0.0065	mg/Kg	✱	04/28/14 08:00	04/28/14 13:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.39</b>		0.200	0.200	SU			04/28/14 14:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-2**

**Lab Sample ID: 500-75386-12**

Date Collected: 04/18/14 09:55

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0070		0.0044	0.0019	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Bromodichloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Bromomethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Chloroethane	<0.0044	*	0.0044	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00072	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	04/18/14 15:25	04/21/14 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 122	04/18/14 15:25	04/21/14 20:15	1
Dibromofluoromethane	112		75 - 120	04/18/14 15:25	04/21/14 20:15	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	04/18/14 15:25	04/21/14 20:15	1
Toluene-d8 (Surr)	101		75 - 122	04/18/14 15:25	04/21/14 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.96		0.96	0.42	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Bis(2-chloroethyl)ether	<0.96		0.96	0.29	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
1,3-Dichlorobenzene	<0.96		0.96	0.21	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
1,4-Dichlorobenzene	<0.96		0.96	0.24	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-2**

**Lab Sample ID: 500-75386-12**

Date Collected: 04/18/14 09:55

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.96		0.96	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2-Methylphenol	<0.96		0.96	0.31	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2,2'-oxybis[1-chloropropane]	<0.96		0.96	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
N-Nitrosodi-n-propylamine	<0.96		0.96	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Hexachloroethane	<0.96		0.96	0.29	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2-Chlorophenol	<0.96		0.96	0.33	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Nitrobenzene	<0.19		0.19	0.048	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Bis(2-chloroethoxy)methane	<0.96		0.96	0.19	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
1,2,4-Trichlorobenzene	<0.96		0.96	0.21	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Isophorone	<0.96		0.96	0.21	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2,4-Dimethylphenol	<1.9		1.9	0.72	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Hexachlorobutadiene	<0.96		0.96	0.30	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Naphthalene	<0.19		0.19	0.029	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2,4-Dichlorophenol	<1.9		1.9	0.45	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
4-Chloroaniline	<3.8		3.8	0.90	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2,4,6-Trichlorophenol	<1.9		1.9	0.65	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2,4,5-Trichlorophenol	<1.9		1.9	0.44	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Hexachlorocyclopentadiene	<3.8		3.8	1.1	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
<b>2-Methylnaphthalene</b>	<b>0.052</b>	<b>J</b>	0.19	0.035	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2-Nitroaniline	<0.96		0.96	0.26	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2-Chloronaphthalene	<0.96		0.96	0.21	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
4-Chloro-3-methylphenol	<1.9		1.9	0.65	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2,6-Dinitrotoluene	<0.96		0.96	0.37	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2-Nitrophenol	<1.9		1.9	0.45	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
3-Nitroaniline	<1.9		1.9	0.59	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Dimethyl phthalate	<0.96		0.96	0.25	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2,4-Dinitrophenol	<3.8		3.8	3.4	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Acenaphthylene	<0.19		0.19	0.025	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
2,4-Dinitrotoluene	<0.96		0.96	0.30	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Acenaphthene	<0.19		0.19	0.034	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Dibenzofuran	<0.96		0.96	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
4-Nitrophenol	<3.8		3.8	1.8	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Fluorene	<0.19		0.19	0.027	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
4-Nitroaniline	<1.9		1.9	0.80	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
4-Bromophenyl phenyl ether	<0.96		0.96	0.25	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Hexachlorobenzene	<0.38		0.38	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Diethyl phthalate	<0.96		0.96	0.32	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
4-Chlorophenyl phenyl ether	<0.96		0.96	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Pentachlorophenol	<3.8		3.8	3.1	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
N-Nitrosodiphenylamine	<0.96		0.96	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	1.5	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
<b>Phenanthrene</b>	<b>0.15</b>	<b>J</b>	0.19	0.027	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Anthracene	<0.19		0.19	0.032	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Carbazole	<0.96		0.96	0.49	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Di-n-butyl phthalate	<0.96		0.96	0.29	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Fluoranthene	<0.19		0.19	0.035	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Pyrene	<0.19		0.19	0.038	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Butyl benzyl phthalate	<0.96		0.96	0.36	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Benzo[a]anthracene	<0.19		0.19	0.026	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-2**

**Lab Sample ID: 500-75386-12**

Date Collected: 04/18/14 09:55

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.19		0.19	0.052	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
3,3'-Dichlorobenzidine	<0.96		0.96	0.27	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Bis(2-ethylhexyl) phthalate	<0.96		0.96	0.35	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Di-n-octyl phthalate	<0.96		0.96	0.31	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Benzo[b]fluoranthene	<0.19		0.19	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Benzo[k]fluoranthene	<0.19		0.19	0.056	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Benzo[a]pyrene	<0.19		0.19	0.037	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Indeno[1,2,3-cd]pyrene	<0.19		0.19	0.049	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Dibenz(a,h)anthracene	<0.19		0.19	0.037	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
Benzo[g,h,i]perylene	<0.19		0.19	0.061	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5
3 & 4 Methylphenol	<0.96		0.96	0.32	mg/Kg	☼	04/25/14 07:28	04/29/14 18:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	04/25/14 07:28	04/29/14 18:30	5
Phenol-d5	55		31 - 110	04/25/14 07:28	04/29/14 18:30	5
Nitrobenzene-d5	46		25 - 115	04/25/14 07:28	04/29/14 18:30	5
2-Fluorobiphenyl	59		25 - 119	04/25/14 07:28	04/29/14 18:30	5
2,4,6-Tribromophenol	23	X	35 - 137	04/25/14 07:28	04/29/14 18:30	5
Terphenyl-d14	78		36 - 134	04/25/14 07:28	04/29/14 18:30	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	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Arsenic</b>	<b>6.6</b>		0.56	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Barium</b>	<b>31</b>		0.56	0.060	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Beryllium</b>	<b>0.55</b>		0.22	0.045	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Boron</b>	<b>11</b>		2.8	0.56	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Cadmium</b>	<b>0.15</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Calcium</b>	<b>34000</b>	<b>B</b>	11	3.0	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Chromium</b>	<b>13</b>		0.56	0.065	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Cobalt</b>	<b>12</b>		0.28	0.056	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Copper</b>	<b>27</b>		0.56	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Iron</b>	<b>17000</b>		11	4.6	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Lead</b>	<b>15</b>		0.28	0.083	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Magnesium</b>	<b>18000</b>		5.6	1.2	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Manganese</b>	<b>250</b>		0.56	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Nickel</b>	<b>32</b>		0.56	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Potassium</b>	<b>2200</b>		28	1.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Selenium</b>	<b>0.29</b>	<b>J B</b>	0.56	0.20	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Sodium</b>	<b>260</b>	<b>B</b>	56	7.5	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Thallium</b>	<b>0.76</b>		0.56	0.24	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Vanadium</b>	<b>15</b>		0.28	0.041	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1
<b>Zinc</b>	<b>40</b>		1.1	0.23	mg/Kg	☼	04/22/14 08:45	04/22/14 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 18:53	1
<b>Boron</b>	<b>0.87</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 18:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-2**

**Lab Sample ID: 500-75386-12**

Date Collected: 04/18/14 09:55

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 18:53	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:53	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:53	1
<b>Iron</b>	<b>0.34</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 18:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 18:53	1
<b>Manganese</b>	<b>0.042</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:53	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:53	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 18:53	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:53	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 18:53	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		04/22/14 13:30	04/23/14 15:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 15:02	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		04/23/14 17:55	04/28/14 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.020	0.0078	mg/Kg	☆	04/28/14 08:00	04/28/14 13:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.21</b>		0.200	0.200	SU			04/28/14 14:38	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-3**

**Lab Sample ID: 500-75386-13**

Date Collected: 04/18/14 10:00

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Bromomethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	04/18/14 15:25	04/21/14 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 122	04/18/14 15:25	04/21/14 20:38	1
Dibromofluoromethane	117		75 - 120	04/18/14 15:25	04/21/14 20:38	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	04/18/14 15:25	04/21/14 20:38	1
Toluene-d8 (Surr)	99		75 - 122	04/18/14 15:25	04/21/14 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-3**

**Lab Sample ID: 500-75386-13**

**Date Collected: 04/18/14 10:00**

**Matrix: Solid**

**Date Received: 04/18/14 15:00**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
<b>Naphthalene</b>	<b>0.012</b>	<b>J</b>	0.041	0.0063	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
<b>2-Methylnaphthalene</b>	<b>0.029</b>	<b>J</b>	0.041	0.0075	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
<b>Phenanthrene</b>	<b>0.11</b>		0.041	0.0057	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
<b>Pyrene</b>	<b>0.022</b>	<b>J</b>	0.041	0.0081	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-3**

**Lab Sample ID: 500-75386-13**

Date Collected: 04/18/14 10:00

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.028</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	04/25/14 07:28	04/29/14 18:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	74		25 - 110				04/25/14 07:28	04/29/14 18:54	1
Phenol-d5	77		31 - 110				04/25/14 07:28	04/29/14 18:54	1
Nitrobenzene-d5	28		25 - 115				04/25/14 07:28	04/29/14 18:54	1
2-Fluorobiphenyl	58		25 - 119				04/25/14 07:28	04/29/14 18:54	1
2,4,6-Tribromophenol	32	X	35 - 137				04/25/14 07:28	04/29/14 18:54	1
Terphenyl-d14	70		36 - 134				04/25/14 07:28	04/29/14 18:54	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Arsenic</b>	<b>6.6</b>		0.57	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Barium</b>	<b>32</b>		0.57	0.061	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Beryllium</b>	<b>0.54</b>		0.23	0.046	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Boron</b>	<b>11</b>		2.9	0.57	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Cadmium</b>	<b>0.24</b>	<b>B</b>	0.11	0.015	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Calcium</b>	<b>52000</b>	<b>B</b>	110	31	mg/Kg	☼	04/22/14 08:45	04/23/14 16:21	10
<b>Chromium</b>	<b>13</b>		0.57	0.066	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Cobalt</b>	<b>12</b>		0.29	0.057	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Copper</b>	<b>25</b>		0.57	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Iron</b>	<b>17000</b>		11	4.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Lead</b>	<b>14</b>		0.29	0.085	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Magnesium</b>	<b>22000</b>		5.7	1.2	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Manganese</b>	<b>310</b>		0.57	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Nickel</b>	<b>30</b>		0.57	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Potassium</b>	<b>2100</b>		29	1.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Selenium</b>	<b>0.29</b>	<b>J B</b>	0.57	0.20	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Sodium</b>	<b>160</b>	<b>B</b>	57	7.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Thallium</b>	<b>0.50</b>	<b>J</b>	0.57	0.24	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Vanadium</b>	<b>14</b>		0.29	0.042	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1
<b>Zinc</b>	<b>140</b>		1.1	0.23	mg/Kg	☼	04/22/14 08:45	04/22/14 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 18:57	1
<b>Boron</b>	<b>0.84</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 18:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B01-3**

**Lab Sample ID: 500-75386-13**

Date Collected: 04/18/14 10:00

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 18:57	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:57	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:57	1
<b>Iron</b>	<b>1.0</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 18:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 18:57	1
<b>Manganese</b>	<b>0.042</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:57	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:57	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 18:57	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 18:57	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 18:57	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		04/22/14 13:30	04/23/14 15:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 15:10	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		04/23/14 17:55	04/28/14 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.019</b>	<b>J</b>	0.020	0.0077	mg/Kg	☆	04/28/14 08:00	04/28/14 13:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.34</b>		0.200	0.200	SU			04/28/14 14:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-1**

**Lab Sample ID: 500-75386-14**

Date Collected: 04/18/14 09:10

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Benzene	<0.0049		0.0049	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Bromomethane	<0.0049	*	0.0049	0.0015	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Dibromochloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	04/18/14 15:25	04/21/14 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 122	04/18/14 15:25	04/21/14 21:01	1
Dibromofluoromethane	111		75 - 120	04/18/14 15:25	04/21/14 21:01	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/18/14 15:25	04/21/14 21:01	1
Toluene-d8 (Surr)	96		75 - 122	04/18/14 15:25	04/21/14 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-1**

**Lab Sample ID: 500-75386-14**

Date Collected: 04/18/14 09:10

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 89.6

**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	☼	04/25/14 07:28	04/29/14 19:17	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.043	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Naphthalene</b>	<b>0.031</b>	<b>J</b>	0.035	0.0054	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>2-Methylnaphthalene</b>	<b>0.0094</b>	<b>J</b>	0.035	0.0065	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Acenaphthylene</b>	<b>0.015</b>	<b>J</b>	0.035	0.0047	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Acenaphthene</b>	<b>0.041</b>		0.035	0.0064	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Fluorene</b>	<b>0.057</b>		0.035	0.0050	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.28	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Phenanthrene</b>	<b>0.59</b>		0.035	0.0049	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Anthracene</b>	<b>0.13</b>		0.035	0.0059	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Fluoranthene</b>	<b>0.64</b>		0.035	0.0066	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Pyrene</b>	<b>0.63</b>		0.035	0.0070	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Benzo[a]anthracene</b>	<b>0.35</b>		0.035	0.0048	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-1**

**Lab Sample ID: 500-75386-14**

Date Collected: 04/18/14 09:10

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.37</b>		0.035	0.0097	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Benzo[b]fluoranthene</b>	<b>0.44</b>		0.035	0.0076	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Benzo[k]fluoranthene</b>	<b>0.15</b>		0.035	0.010	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Benzo[a]pyrene</b>	<b>0.29</b>		0.035	0.0069	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.17</b>		0.035	0.0092	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Dibenz(a,h)anthracene</b>	<b>0.046</b>		0.035	0.0068	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
<b>Benzo[g,h,i]perylene</b>	<b>0.19</b>		0.035	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	04/25/14 07:28	04/29/14 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	04/25/14 07:28	04/29/14 19:17	1
Phenol-d5	64		31 - 110	04/25/14 07:28	04/29/14 19:17	1
Nitrobenzene-d5	56		25 - 115	04/25/14 07:28	04/29/14 19:17	1
2-Fluorobiphenyl	62		25 - 119	04/25/14 07:28	04/29/14 19:17	1
2,4,6-Tribromophenol	51		35 - 137	04/25/14 07:28	04/29/14 19:17	1
Terphenyl-d14	73		36 - 134	04/25/14 07:28	04/29/14 19:17	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Arsenic</b>	<b>5.1</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Barium</b>	<b>12</b>		0.52	0.056	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Beryllium</b>	<b>0.15</b>	<b>J</b>	0.21	0.042	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Boron</b>	<b>3.4</b>		2.6	0.52	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Cadmium</b>	<b>0.11</b>	<b>B</b>	0.10	0.013	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Calcium</b>	<b>15000</b>	<b>B</b>	10	2.8	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Chromium</b>	<b>4.5</b>		0.52	0.061	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Cobalt</b>	<b>4.2</b>		0.26	0.052	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Copper</b>	<b>7.4</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Iron</b>	<b>6500</b>		10	4.3	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Lead</b>	<b>15</b>		0.26	0.078	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Magnesium</b>	<b>7900</b>		5.2	1.1	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Manganese</b>	<b>170</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Nickel</b>	<b>7.3</b>		0.52	0.10	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Potassium</b>	<b>390</b>		26	1.6	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Selenium</b>	<b>0.36</b>	<b>J B</b>	0.52	0.19	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Sodium</b>	<b>87</b>	<b>B</b>	52	7.0	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Vanadium</b>	<b>9.9</b>		0.26	0.039	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1
<b>Zinc</b>	<b>19</b>		1.0	0.21	mg/Kg	☼	04/22/14 08:45	04/22/14 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>0.20</b>		0.20	0.20	mg/L		04/28/14 07:30	04/28/14 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/28/14 07:30	04/28/14 19:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-1**

**Lab Sample ID: 500-75386-14**

Date Collected: 04/18/14 09:10

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 19:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 19:01	1
<b>Boron</b>	<b>0.97</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 19:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 19:01	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:01	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:01	1
<b>Iron</b>	<b>6.0</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 19:01	1
<b>Lead</b>	<b>0.023</b>		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 19:01	1
<b>Manganese</b>	<b>0.077</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:01	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:01	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 19:01	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:01	1
<b>Zinc</b>	<b>0.18</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 19:01	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		04/22/14 13:30	04/23/14 15:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00010</b>	<b>J</b>	0.00020	0.00010	mg/L		04/23/14 17:55	04/28/14 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.038</b>		0.017	0.0065	mg/Kg	✱	04/28/14 08:00	04/28/14 13:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.64</b>		0.200	0.200	SU			04/28/14 14:44	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-2**

**Lab Sample ID: 500-75386-15**

Date Collected: 04/18/14 09:30

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0044	0.0019	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Bromomethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Chloroethane	<0.0044	*	0.0044	0.0012	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	04/18/14 15:25	04/22/14 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 122	04/18/14 15:25	04/22/14 15:53	1
Dibromofluoromethane	111		75 - 120	04/18/14 15:25	04/22/14 15:53	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	04/18/14 15:25	04/22/14 15:53	1
Toluene-d8 (Surr)	103		75 - 122	04/18/14 15:25	04/22/14 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-2**

**Lab Sample ID: 500-75386-15**

**Date Collected: 04/18/14 09:30**

**Matrix: Solid**

**Date Received: 04/18/14 15:00**

**Percent Solids: 83.4**

**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	☼	04/25/14 07:28	04/29/14 19:41	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
<b>2-Methylnaphthalene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
<b>Acenaphthene</b>	<b>0.010</b>	<b>J</b>	0.038	0.0068	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
<b>Phenanthrene</b>	<b>0.10</b>		0.038	0.0053	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-2**

**Lab Sample ID: 500-75386-15**

Date Collected: 04/18/14 09:30

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.031</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/25/14 07:28	04/29/14 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	04/25/14 07:28	04/29/14 19:41	1
Phenol-d5	61		31 - 110	04/25/14 07:28	04/29/14 19:41	1
Nitrobenzene-d5	56		25 - 115	04/25/14 07:28	04/29/14 19:41	1
2-Fluorobiphenyl	62		25 - 119	04/25/14 07:28	04/29/14 19:41	1
2,4,6-Tribromophenol	36		35 - 137	04/25/14 07:28	04/29/14 19:41	1
Terphenyl-d14	76		36 - 134	04/25/14 07:28	04/29/14 19:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Arsenic</b>	<b>7.3</b>		0.57	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Barium</b>	<b>30</b>		0.57	0.061	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Beryllium</b>	<b>0.58</b>		0.23	0.045	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Boron</b>	<b>10</b>		2.8	0.57	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Cadmium</b>	<b>0.17</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Calcium</b>	<b>32000</b>	<b>B</b>	11	3.1	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Chromium</b>	<b>14</b>		0.57	0.066	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Cobalt</b>	<b>14</b>		0.28	0.057	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Copper</b>	<b>30</b>		0.57	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Iron</b>	<b>18000</b>		11	4.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Lead</b>	<b>16</b>		0.28	0.085	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Magnesium</b>	<b>18000</b>		5.7	1.2	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Manganese</b>	<b>260</b>		0.57	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Nickel</b>	<b>36</b>		0.57	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Potassium</b>	<b>2200</b>		28	1.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Selenium</b>	<b>0.40</b>	<b>J B</b>	0.57	0.20	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Sodium</b>	<b>440</b>	<b>B</b>	57	7.6	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Thallium</b>	<b>0.58</b>		0.57	0.24	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Vanadium</b>	<b>14</b>		0.28	0.042	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1
<b>Zinc</b>	<b>44</b>		1.1	0.23	mg/Kg	☼	04/22/14 08:45	04/22/14 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 19:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 19:13	1
<b>Boron</b>	<b>0.86</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 19:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-2**

**Lab Sample ID: 500-75386-15**

Date Collected: 04/18/14 09:30

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 19:13	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:13	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:13	1
<b>Iron</b>	<b>1.5</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 19:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 19:13	1
<b>Manganese</b>	<b>0.047</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:13	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:13	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 19:13	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:13	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 19:13	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		04/22/14 13:30	04/23/14 15:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 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		04/23/14 17:55	04/28/14 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.029</b>		0.018	0.0070	mg/Kg	☆	04/28/14 08:00	04/29/14 08:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.90</b>		0.200	0.200	SU			04/28/14 14:47	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-3**

**Lab Sample ID: 500-75386-16**

**Date Collected: 04/18/14 09:35**

**Matrix: Solid**

**Date Received: 04/18/14 15:00**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Bromomethane	<0.0049	*	0.0049	0.0015	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	04/18/14 15:25	04/22/14 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 122	04/18/14 15:25	04/22/14 16:16	1
Dibromofluoromethane	111		75 - 120	04/18/14 15:25	04/22/14 16:16	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	04/18/14 15:25	04/22/14 16:16	1
Toluene-d8 (Surr)	102		75 - 122	04/18/14 15:25	04/22/14 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.98		0.98	0.43	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Bis(2-chloroethyl)ether	<0.98		0.98	0.29	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
1,3-Dichlorobenzene	<0.98		0.98	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
1,4-Dichlorobenzene	<0.98		0.98	0.25	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-3**

**Lab Sample ID: 500-75386-16**

Date Collected: 04/18/14 09:35

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.98		0.98	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2-Methylphenol	<0.98		0.98	0.31	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2,2'-oxybis[1-chloropropane]	<0.98		0.98	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
N-Nitrosodi-n-propylamine	<0.98		0.98	0.24	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Hexachloroethane	<0.98		0.98	0.30	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2-Chlorophenol	<0.98		0.98	0.33	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Nitrobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Bis(2-chloroethoxy)methane	<0.98		0.98	0.20	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
1,2,4-Trichlorobenzene	<0.98		0.98	0.21	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Isophorone	<0.98		0.98	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2,4-Dimethylphenol	<1.9		1.9	0.74	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Hexachlorobutadiene	<0.98		0.98	0.31	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Naphthalene	<0.19		0.19	0.030	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2,4-Dichlorophenol	<1.9		1.9	0.46	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
4-Chloroaniline	<3.9		3.9	0.92	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2,4,6-Trichlorophenol	<1.9		1.9	0.67	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2,4,5-Trichlorophenol	<1.9		1.9	0.45	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Hexachlorocyclopentadiene	<3.9		3.9	1.1	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
<b>2-Methylnaphthalene</b>	<b>0.046</b>	<b>J</b>	0.19	0.036	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2-Nitroaniline	<0.98		0.98	0.26	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2-Chloronaphthalene	<0.98		0.98	0.22	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
4-Chloro-3-methylphenol	<1.9		1.9	0.66	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2,6-Dinitrotoluene	<0.98		0.98	0.38	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2-Nitrophenol	<1.9		1.9	0.46	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
3-Nitroaniline	<1.9		1.9	0.61	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Dimethyl phthalate	<0.98		0.98	0.26	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2,4-Dinitrophenol	<3.9		3.9	3.4	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Acenaphthylene	<0.19		0.19	0.026	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
2,4-Dinitrotoluene	<0.98		0.98	0.31	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Acenaphthene	<0.19		0.19	0.035	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Dibenzofuran	<0.98		0.98	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
4-Nitrophenol	<3.9		3.9	1.9	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Fluorene	<0.19		0.19	0.027	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
4-Nitroaniline	<1.9		1.9	0.82	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
4-Bromophenyl phenyl ether	<0.98		0.98	0.26	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Hexachlorobenzene	<0.39		0.39	0.045	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Diethyl phthalate	<0.98		0.98	0.33	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
4-Chlorophenyl phenyl ether	<0.98		0.98	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Pentachlorophenol	<3.9		3.9	3.1	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
N-Nitrosodiphenylamine	<0.98		0.98	0.23	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	1.6	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
<b>Phenanthrene</b>	<b>0.14</b>	<b>J</b>	0.19	0.027	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Anthracene	<0.19		0.19	0.033	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Carbazole	<0.98		0.98	0.50	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Di-n-butyl phthalate	<0.98		0.98	0.30	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Fluoranthene	<0.19		0.19	0.036	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Pyrene	<0.19		0.19	0.039	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Butyl benzyl phthalate	<0.98		0.98	0.37	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Benzo[a]anthracene	<0.19		0.19	0.026	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-3**

**Lab Sample ID: 500-75386-16**

Date Collected: 04/18/14 09:35

Matrix: Solid

Date Received: 04/18/14 15:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.19		0.19	0.053	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
3,3'-Dichlorobenzidine	<0.98		0.98	0.27	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Bis(2-ethylhexyl) phthalate	<0.98		0.98	0.36	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Di-n-octyl phthalate	<0.98		0.98	0.32	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Benzo[b]fluoranthene	<0.19		0.19	0.042	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Benzo[k]fluoranthene	<0.19		0.19	0.058	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Benzo[a]pyrene	<0.19		0.19	0.038	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Indeno[1,2,3-cd]pyrene	<0.19		0.19	0.051	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Dibenz(a,h)anthracene	<0.19		0.19	0.038	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
Benzo[g,h,i]perylene	<0.19		0.19	0.063	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5
3 & 4 Methylphenol	<0.98		0.98	0.33	mg/Kg	☼	04/25/14 07:28	04/29/14 20:04	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	04/25/14 07:28	04/29/14 20:04	5
Phenol-d5	61		31 - 110	04/25/14 07:28	04/29/14 20:04	5
Nitrobenzene-d5	49		25 - 115	04/25/14 07:28	04/29/14 20:04	5
2-Fluorobiphenyl	71		25 - 119	04/25/14 07:28	04/29/14 20:04	5
2,4,6-Tribromophenol	12	X	35 - 137	04/25/14 07:28	04/29/14 20:04	5
Terphenyl-d14	82		36 - 134	04/25/14 07:28	04/29/14 20:04	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Arsenic</b>	<b>6.5</b>		0.58	0.11	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Barium</b>	<b>33</b>		0.58	0.062	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Beryllium</b>	<b>0.52</b>		0.23	0.046	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Boron</b>	<b>11</b>		2.9	0.58	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Cadmium</b>	<b>0.18</b>	<b>B</b>	0.12	0.015	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Calcium</b>	<b>51000</b>	<b>B</b>	120	31	mg/Kg	☼	04/22/14 08:45	04/23/14 16:25	10
<b>Chromium</b>	<b>13</b>		0.58	0.067	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Cobalt</b>	<b>12</b>		0.29	0.058	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Copper</b>	<b>25</b>		0.58	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Iron</b>	<b>17000</b>		12	4.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Lead</b>	<b>13</b>		0.29	0.086	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Magnesium</b>	<b>21000</b>		5.8	1.2	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Manganese</b>	<b>290</b>		0.58	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Nickel</b>	<b>30</b>		0.58	0.12	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Potassium</b>	<b>2200</b>		29	1.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Sodium</b>	<b>150</b>	<b>B</b>	58	7.7	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Thallium</b>	<b>0.55</b>	<b>J</b>	0.58	0.24	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Vanadium</b>	<b>15</b>		0.29	0.043	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1
<b>Zinc</b>	<b>43</b>		1.2	0.23	mg/Kg	☼	04/22/14 08:45	04/22/14 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 19:17	1
<b>Boron</b>	<b>0.82</b>		0.10	0.050	mg/L		04/22/14 13:30	04/23/14 19:17	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

**Client Sample ID: 2615-212-B02-3**

**Lab Sample ID: 500-75386-16**

Date Collected: 04/18/14 09:35

Matrix: Solid

Date Received: 04/18/14 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:17	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:17	1
<b>Iron</b>	<b>1.1</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 19:17	1
<b>Manganese</b>	<b>0.046</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:17	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:17	1
Selenium	<0.050		0.050	0.010	mg/L		04/22/14 13:30	04/23/14 19:17	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 19:17	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		04/22/14 13:30	04/23/14 19:17	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		04/22/14 13:30	04/23/14 15:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 15:18	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		04/23/14 17:55	04/28/14 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.017</b>	<b>J</b>	0.019	0.0073	mg/Kg	☆	04/28/14 08:00	04/29/14 08:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.01</b>		0.200	0.200	SU			04/28/14 14:49	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75386-2

## Qualifiers

### GC/MS VOA

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.
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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.
X	Surrogate is outside control limits

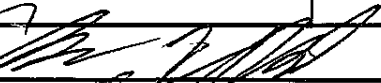
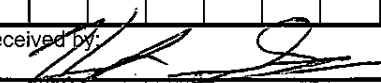
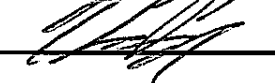
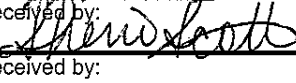
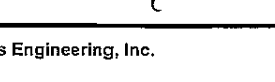
### Metals

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.

## 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
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

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com					<b>Laboratory</b> Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com					Project Name: <u>I90/94 Chicago Cook</u> Project No.: <u>IDOT 2013-061</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CF/cren</u>					COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-75386</u> Sample Temp: <u>24.27</u>		
<b>Special Instructions:</b> 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.					<b>ANALYSES</b>										<b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other		
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	
11	2615-212-B01-1	4/18	9:50	S	X	X					X	X	X	X		0-8	
12	2615-212-B01-2		9:55	S	X	X					X	X	X	X		8-16	
13	2615-212-B01-3		10:00	S	X	X					X	X	X	X		16-24	
14	2615-212-B02-1		9:10	S	X	X					X	X	X	X		0-8	
15	2615-212-B02-2		9:30	S	X	X					X	X	X	X		8-16	
16	2615-212-B02-3	✓	9:35	S	X	X					X	X	X	X		16-24	
Relinquished by: 					Date/Time: <u>4/18/14 10:00</u>					Received by: 					Date/Time: <u>4/18/14 1400</u>		
Relinquished by: 					Date/Time: <u>4/18/14 1500</u>					Received by: 					Date/Time: <u>4/18/14 1500</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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
400 block of S. Halsted Street

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87649 Longitude: -87.64669  
(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: IL

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: I-90/94 at I-290 (Circle Interchange)Latitude: 41.87649 Longitude: -87.64669Uncontaminated 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 2615-213-B01 WAS SAMPLED ADJACENT TO SITE No. 2615-213. SEE FIGURE 6 AND TABLE 3e 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75311-3

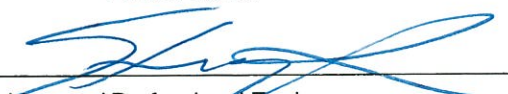
**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

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 EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/2/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-213**

**Bus Stop**

<b>Sample ID</b>	2615-213-B01	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
<b>Sample Depth (ft)</b>	0-4						
<b>Sample Date</b>	4/17/2014						
<b>PID</b>	0						
<b>Sample pH</b>	7.42						
<b>Matrix</b>	Soil						
<b>No Contaminants of Concern Noted.</b>							

# 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: 500-75311-3  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
5/5/2014 2:47:58 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - I90/94 - WO 061

TestAmerica Job ID: 500-75311-3

**Client Sample ID: 2615-213-B01**

**Lab Sample ID: 500-75311-21**

Date Collected: 04/17/14 08:15

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0077		0.0046	0.0020	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Bromomethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Chloroethane	<0.0046	*	0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	04/18/14 07:35	04/22/14 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 122	04/18/14 07:35	04/22/14 23:32	1
Dibromofluoromethane	109		75 - 120	04/18/14 07:35	04/22/14 23:32	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	04/18/14 07:35	04/22/14 23:32	1
Toluene-d8 (Surr)	101		75 - 122	04/18/14 07:35	04/22/14 23:32	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	☼	04/22/14 07:07	04/29/14 19:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-3

**Client Sample ID: 2615-213-B01**

**Lab Sample ID: 500-75311-21**

Date Collected: 04/17/14 08:15

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 83.0

**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	☼	04/22/14 07:07	04/29/14 19:47	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
<b>Naphthalene</b>	<b>0.0083</b>	<b>J</b>	0.038	0.0059	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
<b>2-Methylnaphthalene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
<b>Acenaphthene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0069	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
<b>Phenanthrene</b>	<b>0.11</b>		0.038	0.0054	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0052	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-3

**Client Sample ID: 2615-213-B01**

**Lab Sample ID: 500-75311-21**

Date Collected: 04/17/14 08:15

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
<b>Benzo[g,h,i]perylene</b>	<b>0.014</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	04/22/14 07:07	04/29/14 19:47	1
Phenol-d5	61		31 - 110	04/22/14 07:07	04/29/14 19:47	1
Nitrobenzene-d5	66		25 - 115	04/22/14 07:07	04/29/14 19:47	1
2-Fluorobiphenyl	66		25 - 119	04/22/14 07:07	04/29/14 19:47	1
2,4,6-Tribromophenol	42		35 - 137	04/22/14 07:07	04/29/14 19:47	1
Terphenyl-d14	75		36 - 134	04/22/14 07:07	04/29/14 19:47	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	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Arsenic</b>	<b>6.8</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Barium</b>	<b>33</b>		0.56	0.060	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Beryllium</b>	<b>0.51</b>		0.22	0.045	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Boron</b>	<b>13</b>		2.8	0.56	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Cadmium</b>	<b>0.16</b>		0.11	0.014	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Calcium</b>	<b>56000</b>		110	30	mg/Kg	☼	04/21/14 09:25	04/23/14 02:20	10
<b>Chromium</b>	<b>12</b>		0.56	0.065	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Cobalt</b>	<b>12</b>		0.28	0.056	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Copper</b>	<b>25</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Iron</b>	<b>16000</b>		11	4.6	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Lead</b>	<b>14</b>		0.28	0.084	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Magnesium</b>	<b>24000</b>		5.6	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Manganese</b>	<b>310</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Nickel</b>	<b>30</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Potassium</b>	<b>2200</b>		28	1.7	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Selenium</b>	<b>0.80</b>		0.56	0.20	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Sodium</b>	<b>370</b>		56	7.5	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Vanadium</b>	<b>14</b>		0.28	0.042	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1
<b>Zinc</b>	<b>42</b>		1.1	0.23	mg/Kg	☼	04/21/14 09:25	04/22/14 02:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 10:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 10:53	1
<b>Boron</b>	<b>1.2</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 10:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-3

**Client Sample ID: 2615-213-B01**

**Lab Sample ID: 500-75311-21**

Date Collected: 04/17/14 08:15

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 10:53	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 10:53	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 10:53	1
<b>Iron</b>	<b>1.9</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 10:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 10:53	1
<b>Manganese</b>	<b>0.071</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 10:53	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 10:53	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 10:53	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 10:53	1
<b>Zinc</b>	<b>0.18</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 10:53	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		04/22/14 13:30	04/23/14 11:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:09	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		04/23/14 17:55	04/28/14 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.013</b>	<b>J</b>	0.019	0.0075	mg/Kg	☆	04/24/14 16:24	04/28/14 10:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.42</b>		0.200	0.200	SU			04/27/14 01:28	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-3

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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.
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

### Metals

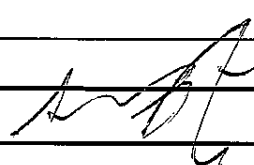
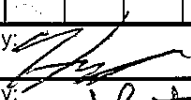
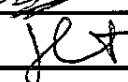
Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery 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
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

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com					<b>Laboratory</b> Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com					Project Name: <u>I90/94 Chicago Cook</u> Project No.: <u>IDOT 2013-061</u> TAT: <input checked="" type="checkbox"/> 15 BD <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CP</u>					COC No.: <u>1</u> of <u>1</u> Lab Job No.: <b>500-75311</b> Sample Temp:	
<b>Special Instructions:</b> 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.					<b>ANALYSES</b>										<b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other	
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
21	2615-213-B01	4/17	845	S	X	X					X	X	X	X		0-4'
	<del>2615-213-B01-D01P</del>			<del>S</del>	<del>X</del>	<del>X</del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>		
Relinquished by: 					Date/Time: <u>4/17/14 1530</u>					Received by: 					Date/Time: <u>4-17-14/1530</u>	
Relinquished by:					Date/Time:					Received by: 					Date/Time: <u>4/18/14 0630</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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

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

I-290 between Throop St. and the Chicago River

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87615 Longitude: -87.64682  
(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: 0316003098 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: IL

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: I-90/94 at I-290 (Circle Interchange)

Latitude: 41.87615 Longitude: -87.64682

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 2615-219-B02 THROUGH -B06 WERE SAMPLED ADJACENT TO SITE No. 2615-219. SEE FIGURE 6 AND TABLE 3f 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75311-4

**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

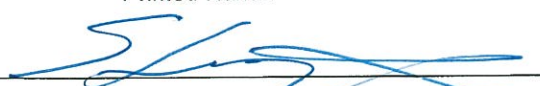
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/2/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-219  
IDOT I-290 ROW

Sample ID	2615-219-B02	2615-219-B03-1	2615-219-B03-2	2615-219-B03-3	2615-219-B04-1	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	0-8	8-16	16-24	0-8							
Sample Date	4/17/2014	4/17/2014	4/17/2014	4/17/2014	4/17/2014							
PID	0	0	0	0	0							
Sample pH	7.67	7.45	7.58	7.49	7.59							
Matrix	Soil	Soil	Soil	Soil	Soil							
<b>Semivolatile Organic Compounds (mg/kg)</b>												
Benzo(a)pyrene	0.095	1,2,*	J 0.014	ND	ND	ND	0.09	0.09	0.98	1.3	2.1	NA

Sample ID	2615-219-B04-2	2615-219-B04-3	2615-219-B04-3 DUP	2615-219-B05-1	2615-219-B05-2	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)	8-16	16-24	16-24	0-8	8-16						
Sample Date	4/17/2014	4/17/2014	4/17/2014	4/17/2014	4/17/2014						
PID	0	0	0	0	0						
Sample pH	7.41	7.98	7.98	7.62	7.75						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>Semivolatile Organic Compounds (mg/kg)</b>											
Benzo(a)pyrene	ND	ND	ND	J 0.025	ND	0.09	0.09	0.98	1.3	2.1	NA

Sample ID	2615-219-B05-3	2615-219-B06-1	2615-219-B06-2	2615-219-B06-3	2615-219-B06-3 DUP	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)	16-24	0-8	8-16	16-24	16-24						
Sample Date	4/17/2014	4/17/2014	4/17/2014	4/17/2014	4/17/2014						
PID	0	0	0	0	0						
Sample pH	7.73	7.54	7.82	7.43	8.15						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>Semivolatile Organic Compounds (mg/kg)</b>											
Benzo(a)pyrene	ND	ND	ND	ND	ND	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: 500-75311-4  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
5/5/2014 2:48:46 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B02**

**Lab Sample ID: 500-75311-25**

Date Collected: 04/17/14 11:05

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0045		0.0042	0.0018	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Chloroform	<0.0042		0.0042	0.00049	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Dibromochloromethane	<0.0042		0.0042	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Tetrachloroethene	<0.0042		0.0042	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1
Xylenes, Total	<0.0085		0.0085	0.00038	mg/Kg	☼	04/18/14 07:35	04/22/14 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	04/18/14 07:35	04/22/14 17:33	1
Dibromofluoromethane	110		75 - 120	04/18/14 07:35	04/22/14 17:33	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/18/14 07:35	04/22/14 17:33	1
Toluene-d8 (Surr)	107		75 - 122	04/18/14 07:35	04/22/14 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B02**

**Lab Sample ID: 500-75311-25**

**Date Collected: 04/17/14 11:05**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 86.3**

**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	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Naphthalene</b>	<b>0.054</b>		0.037	0.0057	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>2-Methylnaphthalene</b>	<b>0.073</b>		0.037	0.0068	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Acenaphthylene</b>	<b>0.010 J</b>		0.037	0.0049	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Acenaphthene</b>	<b>0.030 J</b>		0.037	0.0066	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Dibenzofuran</b>	<b>0.043 J</b>		0.19	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Fluorene</b>	<b>0.037</b>		0.037	0.0052	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Phenanthrene</b>	<b>0.30</b>		0.037	0.0051	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Anthracene</b>	<b>0.041</b>		0.037	0.0062	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Fluoranthene</b>	<b>0.21</b>		0.037	0.0068	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Pyrene</b>	<b>0.33</b>		0.037	0.0073	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Benzo[a]anthracene</b>	<b>0.11</b>		0.037	0.0050	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B02**

**Lab Sample ID: 500-75311-25**

Date Collected: 04/17/14 11:05

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.13</b>		0.037	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Benzo[b]fluoranthene</b>	<b>0.15</b>		0.037	0.0080	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Benzo[k]fluoranthene</b>	<b>0.059</b>		0.037	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Benzo[a]pyrene</b>	<b>0.095</b>		0.037	0.0071	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.036</b>	<b>J</b>	0.037	0.0096	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Dibenz(a,h)anthracene</b>	<b>0.0091</b>	<b>J</b>	0.037	0.0071	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
<b>Benzo[g,h,i]perylene</b>	<b>0.057</b>		0.037	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	04/22/14 07:07	04/29/14 21:00	1
Phenol-d5	60		31 - 110	04/22/14 07:07	04/29/14 21:00	1
Nitrobenzene-d5	59		25 - 115	04/22/14 07:07	04/29/14 21:00	1
2-Fluorobiphenyl	63		25 - 119	04/22/14 07:07	04/29/14 21:00	1
2,4,6-Tribromophenol	51		35 - 137	04/22/14 07:07	04/29/14 21:00	1
Terphenyl-d14	105		36 - 134	04/22/14 07:07	04/29/14 21:00	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	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Arsenic</b>	<b>7.4</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Barium</b>	<b>35</b>		0.55	0.059	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Beryllium</b>	<b>0.55</b>		0.22	0.044	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Boron</b>	<b>12</b>		2.8	0.55	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.014	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Calcium</b>	<b>53000</b>		110	30	mg/Kg	☼	04/21/14 09:25	04/23/14 03:00	10
<b>Chromium</b>	<b>13</b>		0.55	0.064	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Cobalt</b>	<b>19</b>		0.28	0.055	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Copper</b>	<b>30</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Iron</b>	<b>16000</b>		11	4.5	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Lead</b>	<b>25</b>		0.28	0.082	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Magnesium</b>	<b>24000</b>		5.5	1.1	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Manganese</b>	<b>320</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Nickel</b>	<b>38</b>		0.55	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Potassium</b>	<b>2200</b>		28	1.7	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Selenium</b>	<b>0.82</b>		0.55	0.20	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Sodium</b>	<b>590</b>		55	7.4	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Thallium</b>	<b>1.1</b>		0.55	0.23	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Vanadium</b>	<b>14</b>		0.28	0.041	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1
<b>Zinc</b>	<b>51</b>		1.1	0.22	mg/Kg	☼	04/21/14 09:25	04/22/14 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 11:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 11:21	1
<b>Boron</b>	<b>1.2</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 11:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B02**

**Lab Sample ID: 500-75311-25**

Date Collected: 04/17/14 11:05

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 11:21	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:21	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:21	1
<b>Iron</b>	<b>0.25</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 11:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 11:21	1
<b>Manganese</b>	<b>0.053</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:21	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:21	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 11:21	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:21	1
<b>Zinc</b>	<b>0.19</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 11:21	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		04/22/14 13:30	04/23/14 11:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:27	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		04/23/14 17:55	04/28/14 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.018	0.0070	mg/Kg	☆	04/24/14 16:24	04/28/14 11:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.67</b>		0.200	0.200	SU			04/27/14 03:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-1**

**Lab Sample ID: 500-75311-26**

Date Collected: 04/17/14 10:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0063		0.0041	0.0018	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Bromoform	<0.0041		0.0041	0.00093	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	04/18/14 07:35	04/22/14 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	04/18/14 07:35	04/22/14 17:57	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/22/14 17:57	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/18/14 07:35	04/22/14 17:57	1
Toluene-d8 (Surr)	109		75 - 122	04/18/14 07:35	04/22/14 17:57	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	☼	04/22/14 07:07	04/29/14 21:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-1**

**Lab Sample ID: 500-75311-26**

Date Collected: 04/17/14 10:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 85.9

**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	*	04/22/14 07:07	04/29/14 21:19	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Isophorone	<0.19		0.19	0.043	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
<b>Naphthalene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0059	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
<b>2-Methylnaphthalene</b>	<b>0.057</b>		0.038	0.0071	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
<b>Acenaphthylene</b>	<b>0.0084</b>	<b>J</b>	0.038	0.0051	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
<b>Acenaphthene</b>	<b>0.0086</b>	<b>J</b>	0.038	0.0069	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
<b>Phenanthrene</b>	<b>0.11</b>		0.038	0.0054	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Carbazole	<0.19		0.19	0.10	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
<b>Fluoranthene</b>	<b>0.029</b>	<b>J</b>	0.038	0.0072	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
<b>Pyrene</b>	<b>0.043</b>		0.038	0.0077	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1
<b>Benzo[a]anthracene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0052	mg/Kg	*	04/22/14 07:07	04/29/14 21:19	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-1**

**Lab Sample ID: 500-75311-26**

Date Collected: 04/17/14 10:45

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.033</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
<b>Benzo[b]fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.038	0.0083	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
<b>Benzo[a]pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
<b>Benzo[g,h,i]perylene</b>	<b>0.024</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 21:19	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2-Fluorophenol</i>	<i>62</i>		<i>25 - 110</i>				<i>04/22/14 07:07</i>	<i>04/29/14 21:19</i>	<i>1</i>
<i>Phenol-d5</i>	<i>56</i>		<i>31 - 110</i>				<i>04/22/14 07:07</i>	<i>04/29/14 21:19</i>	<i>1</i>
<i>Nitrobenzene-d5</i>	<i>61</i>		<i>25 - 115</i>				<i>04/22/14 07:07</i>	<i>04/29/14 21:19</i>	<i>1</i>
<i>2-Fluorobiphenyl</i>	<i>59</i>		<i>25 - 119</i>				<i>04/22/14 07:07</i>	<i>04/29/14 21:19</i>	<i>1</i>
<i>2,4,6-Tribromophenol</i>	<i>44</i>		<i>35 - 137</i>				<i>04/22/14 07:07</i>	<i>04/29/14 21:19</i>	<i>1</i>
<i>Terphenyl-d14</i>	<i>81</i>		<i>36 - 134</i>				<i>04/22/14 07:07</i>	<i>04/29/14 21:19</i>	<i>1</i>

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Arsenic</b>	<b>7.8</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Barium</b>	<b>30</b>		0.57	0.061	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Beryllium</b>	<b>0.57</b>		0.23	0.045	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Boron</b>	<b>12</b>		2.8	0.57	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Cadmium</b>	<b>0.16</b>		0.11	0.014	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Calcium</b>	<b>48000</b>		110	31	mg/Kg	☼	04/21/14 09:25	04/23/14 03:04	10
<b>Chromium</b>	<b>12</b>		0.57	0.066	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Cobalt</b>	<b>13</b>		0.28	0.057	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Copper</b>	<b>28</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Iron</b>	<b>16000</b>		11	4.7	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Lead</b>	<b>16</b>		0.28	0.084	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Magnesium</b>	<b>22000</b>		5.7	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Manganese</b>	<b>300</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Nickel</b>	<b>31</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Potassium</b>	<b>2200</b>		28	1.7	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Selenium</b>	<b>1.1</b>		0.57	0.20	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Sodium</b>	<b>220</b>		57	7.6	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.57	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Vanadium</b>	<b>14</b>		0.28	0.042	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1
<b>Zinc</b>	<b>45</b>		1.1	0.23	mg/Kg	☼	04/21/14 09:25	04/22/14 03:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 11:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 11:33	1
<b>Boron</b>	<b>1.1</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 11:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-1**

**Lab Sample ID: 500-75311-26**

Date Collected: 04/17/14 10:45

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 11:33	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:33	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:33	1
<b>Iron</b>	<b>0.56</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 11:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 11:33	1
<b>Manganese</b>	<b>0.048</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:33	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:33	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 11:33	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:33	1
<b>Zinc</b>	<b>0.20</b>		0.20	0.020	mg/L		04/22/14 13:30	04/23/14 11:33	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		04/22/14 13:30	04/23/14 11:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:38	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		04/23/14 17:55	04/28/14 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.051</b>		0.018	0.0073	mg/Kg	☆	04/24/14 16:24	04/28/14 11:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.45</b>		0.200	0.200	SU			04/27/14 04:02	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-2**

**Lab Sample ID: 500-75311-27**

**Date Collected: 04/17/14 10:50**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 83.8**

**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	☼	04/18/14 07:35	04/22/14 18:21	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	04/18/14 07:35	04/22/14 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	04/18/14 07:35	04/22/14 18:21	1
Dibromofluoromethane	108		75 - 120	04/18/14 07:35	04/22/14 18:21	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/18/14 07:35	04/22/14 18:21	1
Toluene-d8 (Surr)	105		75 - 122	04/18/14 07:35	04/22/14 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-2**

**Lab Sample ID: 500-75311-27**

Date Collected: 04/17/14 10:50

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 83.8

**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	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
<b>2-Methylnaphthalene</b>	<b>0.032</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
<b>Phenanthrene</b>	<b>0.083</b>		0.038	0.0053	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-2**

**Lab Sample ID: 500-75311-27**

**Date Collected: 04/17/14 10:50**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 83.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.017</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	04/22/14 07:07	04/29/14 21:37	1
Phenol-d5	61		31 - 110	04/22/14 07:07	04/29/14 21:37	1
Nitrobenzene-d5	64		25 - 115	04/22/14 07:07	04/29/14 21:37	1
2-Fluorobiphenyl	64		25 - 119	04/22/14 07:07	04/29/14 21:37	1
2,4,6-Tribromophenol	38		35 - 137	04/22/14 07:07	04/29/14 21:37	1
Terphenyl-d14	69		36 - 134	04/22/14 07:07	04/29/14 21:37	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	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Arsenic</b>	<b>8.3</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Barium</b>	<b>32</b>		0.56	0.060	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Beryllium</b>	<b>0.56</b>		0.22	0.045	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Boron</b>	<b>13</b>		2.8	0.56	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Cadmium</b>	<b>0.16</b>		0.11	0.014	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Calcium</b>	<b>52000</b>		110	30	mg/Kg	☼	04/21/14 09:25	04/23/14 03:08	10
<b>Chromium</b>	<b>13</b>		0.56	0.065	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Cobalt</b>	<b>14</b>		0.28	0.056	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Copper</b>	<b>28</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Iron</b>	<b>18000</b>		11	4.6	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Lead</b>	<b>16</b>		0.28	0.084	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Magnesium</b>	<b>23000</b>		5.6	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Manganese</b>	<b>300</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Nickel</b>	<b>34</b>		0.56	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Potassium</b>	<b>2300</b>		28	1.7	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Selenium</b>	<b>0.90</b>		0.56	0.20	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Sodium</b>	<b>170</b>		56	7.5	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Thallium</b>	<b>0.43</b>	<b>J</b>	0.56	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Vanadium</b>	<b>15</b>		0.28	0.042	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1
<b>Zinc</b>	<b>45</b>		1.1	0.23	mg/Kg	☼	04/21/14 09:25	04/22/14 03:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 11:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 11:37	1
<b>Boron</b>	<b>1.2</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 11:37	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-2**

**Lab Sample ID: 500-75311-27**

Date Collected: 04/17/14 10:50

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 11:37	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:37	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:37	1
<b>Iron</b>	<b>1.4</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 11:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 11:37	1
<b>Manganese</b>	<b>0.084</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:37	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:37	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 11:37	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:37	1
<b>Zinc</b>	<b>0.18</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 11:37	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		04/22/14 13:30	04/23/14 11:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:41	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		04/23/14 17:55	04/28/14 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.019</b>		0.018	0.0069	mg/Kg	☆	04/24/14 16:24	04/28/14 11:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.58</b>		0.200	0.200	SU			04/27/14 04:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-3**

**Lab Sample ID: 500-75311-28**

**Date Collected: 04/17/14 10:55**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	04/18/14 07:35	04/22/14 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	04/18/14 07:35	04/22/14 18:45	1
Dibromofluoromethane	108		75 - 120	04/18/14 07:35	04/22/14 18:45	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	04/18/14 07:35	04/22/14 18:45	1
Toluene-d8 (Surr)	109		75 - 122	04/18/14 07:35	04/22/14 18:45	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	☼	04/22/14 07:07	04/29/14 21:55	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-3**

**Lab Sample ID: 500-75311-28**

**Date Collected: 04/17/14 10:55**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 80.7**

**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	*	04/22/14 07:07	04/29/14 21:55	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
<b>Naphthalene</b>	<b>0.013</b>	<b>J</b>	0.040	0.0062	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
<b>2-Methylnaphthalene</b>	<b>0.039</b>	<b>J</b>	0.040	0.0074	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
<b>Phenanthrene</b>	<b>0.087</b>		0.040	0.0056	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Carbazole	<0.20		0.20	0.10	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
<b>Pyrene</b>	<b>0.019</b>	<b>J</b>	0.040	0.0080	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.040	0.0054	mg/Kg	*	04/22/14 07:07	04/29/14 21:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-3**

**Lab Sample ID: 500-75311-28**

Date Collected: 04/17/14 10:55

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.014</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:07	04/29/14 21:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	54		25 - 110				04/22/14 07:07	04/29/14 21:55	1
Phenol-d5	50		31 - 110				04/22/14 07:07	04/29/14 21:55	1
Nitrobenzene-d5	49		25 - 115				04/22/14 07:07	04/29/14 21:55	1
2-Fluorobiphenyl	60		25 - 119				04/22/14 07:07	04/29/14 21:55	1
2,4,6-Tribromophenol	34	X	35 - 137				04/22/14 07:07	04/29/14 21:55	1
Terphenyl-d14	85		36 - 134				04/22/14 07:07	04/29/14 21:55	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Arsenic</b>	<b>8.0</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Barium</b>	<b>36</b>		0.57	0.061	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Beryllium</b>	<b>0.60</b>		0.23	0.045	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Boron</b>	<b>15</b>		2.8	0.57	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.014	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Calcium</b>	<b>51000</b>		110	31	mg/Kg	☼	04/21/14 09:25	04/23/14 03:12	10
<b>Chromium</b>	<b>14</b>		0.57	0.066	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Cobalt</b>	<b>14</b>		0.28	0.057	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Copper</b>	<b>27</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Iron</b>	<b>18000</b>		11	4.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Lead</b>	<b>16</b>		0.28	0.084	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Magnesium</b>	<b>21000</b>		5.7	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Manganese</b>	<b>270</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Nickel</b>	<b>34</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Potassium</b>	<b>2500</b>		28	1.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Selenium</b>	<b>0.89</b>		0.57	0.20	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Sodium</b>	<b>190</b>		57	7.6	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Thallium</b>	<b>0.50</b>	<b>J</b>	0.57	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Vanadium</b>	<b>16</b>		0.28	0.042	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1
<b>Zinc</b>	<b>47</b>		1.1	0.23	mg/Kg	☼	04/21/14 09:25	04/22/14 04:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 17:54	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B03-3**

**Lab Sample ID: 500-75311-28**

Date Collected: 04/17/14 10:55

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 11:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 11:41	1
<b>Boron</b>	<b>1.0</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 11:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 11:41	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:41	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:41	1
<b>Iron</b>	<b>2.8</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 11:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 11:41	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:41	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:41	1
Selenium	<0.050	<b>^</b>	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 11:41	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:41	1
<b>Zinc</b>	<b>0.18</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 11:41	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		04/22/14 13:30	04/23/14 11:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:43	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		04/23/14 17:55	04/28/14 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.022</b>		0.019	0.0075	mg/Kg	✱	04/24/14 16:24	04/28/14 11:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.49</b>		0.200	0.200	SU			04/27/14 05:03	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-1**

**Lab Sample ID: 500-75311-29**

Date Collected: 04/17/14 09:50

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	04/18/14 07:35	04/22/14 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	04/18/14 07:35	04/22/14 19:09	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/22/14 19:09	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	04/18/14 07:35	04/22/14 19:09	1
Toluene-d8 (Surr)	109		75 - 122	04/18/14 07:35	04/22/14 19:09	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	☼	04/22/14 07:07	04/29/14 22:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-1**

**Lab Sample ID: 500-75311-29**

Date Collected: 04/17/14 09:50

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.8

**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	☼	04/22/14 07:07	04/29/14 22:14	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
<b>Naphthalene</b>	<b>0.0091</b>	<b>J</b>	0.040	0.0061	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
<b>2-Methylnaphthalene</b>	<b>0.040</b>		0.040	0.0074	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
<b>Phenanthrene</b>	<b>0.089</b>		0.040	0.0056	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
<b>Fluoranthene</b>	<b>0.010</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
<b>Pyrene</b>	<b>0.042</b>		0.040	0.0079	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-1**

**Lab Sample ID: 500-75311-29**

Date Collected: 04/17/14 09:50

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.020</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
<b>Benzo[k]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.040	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:07	04/29/14 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	04/22/14 07:07	04/29/14 22:14	1
Phenol-d5	52		31 - 110	04/22/14 07:07	04/29/14 22:14	1
Nitrobenzene-d5	46		25 - 115	04/22/14 07:07	04/29/14 22:14	1
2-Fluorobiphenyl	54		25 - 119	04/22/14 07:07	04/29/14 22:14	1
2,4,6-Tribromophenol	39		35 - 137	04/22/14 07:07	04/29/14 22:14	1
Terphenyl-d14	112		36 - 134	04/22/14 07:07	04/29/14 22:14	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Arsenic</b>	<b>7.6</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Barium</b>	<b>36</b>		0.60	0.064	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Beryllium</b>	<b>0.58</b>		0.24	0.048	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Boron</b>	<b>13</b>		3.0	0.60	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Cadmium</b>	<b>0.23</b>		0.12	0.015	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Calcium</b>	<b>53000</b>		120	32	mg/Kg	☼	04/21/14 09:25	04/23/14 03:16	10
<b>Chromium</b>	<b>14</b>		0.60	0.070	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Cobalt</b>	<b>13</b>		0.30	0.060	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Copper</b>	<b>28</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Iron</b>	<b>17000</b>		12	4.9	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Lead</b>	<b>16</b>		0.30	0.089	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Magnesium</b>	<b>23000</b>		6.0	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Manganese</b>	<b>290</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Nickel</b>	<b>33</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Potassium</b>	<b>2400</b>		30	1.8	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Selenium</b>	<b>0.74</b>		0.60	0.21	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Sodium</b>	<b>780</b>		60	8.0	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Thallium</b>	<b>0.66</b>		0.60	0.25	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Vanadium</b>	<b>16</b>		0.30	0.044	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1
<b>Zinc</b>	<b>51</b>		1.2	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 04:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		04/28/14 07:30	04/28/14 17:59	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 17:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-1**

**Lab Sample ID: 500-75311-29**

Date Collected: 04/17/14 09:50

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 11:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 11:45	1
<b>Boron</b>	<b>1.0</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 11:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 11:45	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:45	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:45	1
<b>Iron</b>	<b>2.4</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 11:45	1
<b>Lead</b>	<b>0.012</b>		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 11:45	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:45	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:45	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 11:45	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:45	1
<b>Zinc</b>	<b>0.17</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 11:45	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		04/22/14 13:30	04/23/14 11:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:46	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		04/23/14 17:55	04/28/14 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>		0.020	0.0078	mg/Kg	☆	04/24/14 16:24	04/28/14 11:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.59</b>		0.200	0.200	SU			04/27/14 05:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-2**

**Lab Sample ID: 500-75311-30**

Date Collected: 04/17/14 09:55

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0086		0.0048	0.0021	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	04/18/14 07:35	04/22/14 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	04/18/14 07:35	04/22/14 19:33	1
Dibromofluoromethane	110		75 - 120	04/18/14 07:35	04/22/14 19:33	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/18/14 07:35	04/22/14 19:33	1
Toluene-d8 (Surr)	107		75 - 122	04/18/14 07:35	04/22/14 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-2**

**Lab Sample ID: 500-75311-30**

**Date Collected: 04/17/14 09:55**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
<b>Naphthalene</b>	<b>0.011</b>	<b>J</b>	0.041	0.0063	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
<b>2-Methylnaphthalene</b>	<b>0.050</b>		0.041	0.0076	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
<b>Phenanthrene</b>	<b>0.098</b>		0.041	0.0057	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
<b>Pyrene</b>	<b>0.037</b>	<b>J</b>	0.041	0.0082	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
<b>Benzo[a]anthracene</b>	<b>0.015</b>	<b>J</b>	0.041	0.0055	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-2**

**Lab Sample ID: 500-75311-30**

Date Collected: 04/17/14 09:55

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	04/22/14 07:07	04/29/14 22:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	62		25 - 110				04/22/14 07:07	04/29/14 22:32	1
Phenol-d5	56		31 - 110				04/22/14 07:07	04/29/14 22:32	1
Nitrobenzene-d5	51		25 - 115				04/22/14 07:07	04/29/14 22:32	1
2-Fluorobiphenyl	57		25 - 119				04/22/14 07:07	04/29/14 22:32	1
2,4,6-Tribromophenol	35		35 - 137				04/22/14 07:07	04/29/14 22:32	1
Terphenyl-d14	160	X	36 - 134				04/22/14 07:07	04/29/14 22:32	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	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Arsenic</b>	<b>7.3</b>		0.58	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Barium</b>	<b>35</b>		0.58	0.062	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Beryllium</b>	<b>0.57</b>		0.23	0.046	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Boron</b>	<b>14</b>		2.9	0.58	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Cadmium</b>	<b>0.17</b>		0.12	0.015	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Calcium</b>	<b>50000</b>		120	31	mg/Kg	☼	04/21/14 09:25	04/23/14 03:20	10
<b>Chromium</b>	<b>14</b>		0.58	0.067	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Cobalt</b>	<b>13</b>		0.29	0.058	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Copper</b>	<b>25</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Iron</b>	<b>17000</b>		12	4.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Lead</b>	<b>14</b>		0.29	0.086	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Magnesium</b>	<b>21000</b>		5.8	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Manganese</b>	<b>280</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Nickel</b>	<b>31</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Potassium</b>	<b>2400</b>		29	1.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Selenium</b>	<b>0.90</b>		0.58	0.20	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Sodium</b>	<b>180</b>		58	7.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Thallium</b>	<b>0.59</b>		0.58	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Vanadium</b>	<b>15</b>		0.29	0.043	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1
<b>Zinc</b>	<b>46</b>		1.2	0.23	mg/Kg	☼	04/21/14 09:25	04/22/14 04:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 11:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 11:49	1
<b>Boron</b>	<b>1.0</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 11:49	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-2**

**Lab Sample ID: 500-75311-30**

Date Collected: 04/17/14 09:55

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 11:49	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:49	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:49	1
<b>Iron</b>	<b>2.3</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 11:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 11:49	1
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:49	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:49	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 11:49	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:49	1
<b>Zinc</b>	<b>0.17</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 11:49	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		04/22/14 13:30	04/23/14 11:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:49	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		04/23/14 17:55	04/28/14 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.019</b>	<b>J</b>	0.021	0.0081	mg/Kg	☆	04/24/14 16:24	04/28/14 11:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.41</b>		0.200	0.200	SU			04/27/14 06:35	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-3**

**Lab Sample ID: 500-75311-31**

**Date Collected: 04/17/14 10:00**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 79.5**

**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	☼	04/18/14 07:35	04/22/14 19:57	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Carbon disulfide	<0.0045		0.0045	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Chloromethane	<0.0045		0.0045	0.00093	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00058	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Dibromochloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
1,1-Dichloroethane	<0.0045		0.0045	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00058	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Styrene	<0.0045		0.0045	0.00058	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Trichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Vinyl chloride	<0.0045		0.0045	0.00093	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	04/18/14 07:35	04/22/14 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	04/18/14 07:35	04/22/14 19:57	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/22/14 19:57	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	04/18/14 07:35	04/22/14 19:57	1
Toluene-d8 (Surr)	105		75 - 122	04/18/14 07:35	04/22/14 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-3**

**Lab Sample ID: 500-75311-31**

**Date Collected: 04/17/14 10:00**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 79.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
<b>Naphthalene</b>	<b>0.0098</b>	<b>J</b>	0.041	0.0063	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
<b>2-Methylnaphthalene</b>	<b>0.037</b>	<b>J</b>	0.041	0.0075	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
<b>Phenanthrene</b>	<b>0.098</b>		0.041	0.0057	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
<b>Pyrene</b>	<b>0.032</b>	<b>J</b>	0.041	0.0081	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-3**

**Lab Sample ID: 500-75311-31**

**Date Collected: 04/17/14 10:00**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 79.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	04/22/14 07:07	04/29/14 22:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	52		25 - 110				04/22/14 07:07	04/29/14 22:51	1
Phenol-d5	43		31 - 110				04/22/14 07:07	04/29/14 22:51	1
Nitrobenzene-d5	52		25 - 115				04/22/14 07:07	04/29/14 22:51	1
2-Fluorobiphenyl	58		25 - 119				04/22/14 07:07	04/29/14 22:51	1
2,4,6-Tribromophenol	36		35 - 137				04/22/14 07:07	04/29/14 22:51	1
Terphenyl-d14	120		36 - 134				04/22/14 07:07	04/29/14 22:51	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Arsenic</b>	<b>6.8</b>		0.62	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Barium</b>	<b>35</b>		0.62	0.066	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Beryllium</b>	<b>0.57</b>		0.25	0.050	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Boron</b>	<b>14</b>		3.1	0.62	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Cadmium</b>	<b>0.18</b>		0.12	0.016	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Calcium</b>	<b>55000</b>		120	34	mg/Kg	☼	04/21/14 09:25	04/23/14 03:25	10
<b>Chromium</b>	<b>14</b>		0.62	0.072	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Cobalt</b>	<b>13</b>		0.31	0.062	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Copper</b>	<b>25</b>		0.62	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Iron</b>	<b>17000</b>		12	5.1	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Lead</b>	<b>14</b>		0.31	0.092	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Magnesium</b>	<b>22000</b>		6.2	1.3	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Manganese</b>	<b>280</b>		0.62	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Nickel</b>	<b>31</b>		0.62	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Potassium</b>	<b>2300</b>		31	1.9	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Selenium</b>	<b>0.89</b>		0.62	0.22	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Sodium</b>	<b>190</b>		62	8.3	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Thallium</b>	<b>0.34</b>	<b>J</b>	0.62	0.26	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Vanadium</b>	<b>15</b>		0.31	0.046	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1
<b>Zinc</b>	<b>49</b>		1.2	0.25	mg/Kg	☼	04/21/14 09:25	04/22/14 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 18:04	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-3**

**Lab Sample ID: 500-75311-31**

Date Collected: 04/17/14 10:00

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 11:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 11:53	1
<b>Boron</b>	<b>1.0</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 11:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 11:53	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:53	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:53	1
<b>Iron</b>	<b>2.4</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 11:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 11:53	1
<b>Manganese</b>	<b>0.26</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:53	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:53	1
Selenium	<0.050	<b>^</b>	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 11:53	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:53	1
<b>Zinc</b>	<b>0.16</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 11:53	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		04/22/14 13:30	04/23/14 11:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:51	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		04/23/14 17:55	04/28/14 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.020	0.0079	mg/Kg	<b>☆</b>	04/24/14 16:24	04/28/14 11:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.98</b>		0.200	0.200	SU			04/27/14 07:06	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-1**

**Lab Sample ID: 500-75311-32**

Date Collected: 04/17/14 10:30

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0039		0.0039	0.0017	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Benzene	<0.0039		0.0039	0.00053	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Bromoform	<0.0039		0.0039	0.00089	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Carbon disulfide	<0.0039		0.0039	0.00058	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Carbon tetrachloride	<0.0039		0.0039	0.00071	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Chlorobenzene	<0.0039		0.0039	0.00039	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Chloromethane	<0.0039		0.0039	0.00082	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
1,1-Dichloroethene	<0.0039		0.0039	0.00063	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
1,2-Dichloropropane	<0.0039		0.0039	0.00059	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Ethylbenzene	<0.0039		0.0039	0.00079	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Methylene Chloride	<0.0039		0.0039	0.0010	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00064	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00079	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Tetrachloroethene	<0.0039		0.0039	0.00059	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Toluene	<0.0039		0.0039	0.00054	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00053	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00070	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00058	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00053	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Trichloroethene	<0.0039		0.0039	0.00064	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Vinyl acetate	<0.0039		0.0039	0.00061	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Vinyl chloride	<0.0039		0.0039	0.00082	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1
Xylenes, Total	<0.0078		0.0078	0.00035	mg/Kg	✳	04/18/14 07:35	04/22/14 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	04/18/14 07:35	04/22/14 20:21	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/22/14 20:21	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	04/18/14 07:35	04/22/14 20:21	1
Toluene-d8 (Surr)	111		75 - 122	04/18/14 07:35	04/22/14 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17	*	0.17	0.076	mg/Kg	✳	04/22/14 07:07	04/27/14 02:25	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	✳	04/22/14 07:07	04/27/14 02:25	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	✳	04/22/14 07:07	04/27/14 02:25	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	✳	04/22/14 07:07	04/27/14 02:25	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-1**

**Lab Sample ID: 500-75311-32**

**Date Collected: 04/17/14 10:30**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 91.3**

**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	☼	04/22/14 07:07	04/27/14 02:25	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2,4-Dinitrophenol	<0.69		0.69	0.61	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
4-Nitrophenol	<0.69		0.69	0.33	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Hexachlorobenzene	<0.069		0.069	0.0080	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.28	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Phenanthrene</b>	<b>0.022</b>	<b>J</b>	0.034	0.0048	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Carbazole	<0.17		0.17	0.089	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Fluoranthene</b>	<b>0.046</b>		0.034	0.0064	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Pyrene</b>	<b>0.046</b>		0.034	0.0068	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Benzo[a]anthracene</b>	<b>0.026</b>	<b>J</b>	0.034	0.0046	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-1**

**Lab Sample ID: 500-75311-32**

Date Collected: 04/17/14 10:30

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.033</b>	<b>J</b>	0.034	0.0094	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Benzo[b]fluoranthene</b>	<b>0.034</b>		0.034	0.0074	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Benzo[k]fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.034	0.010	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Benzo[a]pyrene</b>	<b>0.025</b>	<b>J</b>	0.034	0.0067	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.015</b>	<b>J</b>	0.034	0.0089	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.034	0.011	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	04/22/14 07:07	04/27/14 02:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	68		25 - 110				04/22/14 07:07	04/27/14 02:25	1
Phenol-d5	60		31 - 110				04/22/14 07:07	04/27/14 02:25	1
Nitrobenzene-d5	58		25 - 115				04/22/14 07:07	04/27/14 02:25	1
2-Fluorobiphenyl	64		25 - 119				04/22/14 07:07	04/27/14 02:25	1
2,4,6-Tribromophenol	63		35 - 137				04/22/14 07:07	04/27/14 02:25	1
Terphenyl-d14	76		36 - 134				04/22/14 07:07	04/27/14 02:25	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.48</b>	<b>J</b>	1.0	0.42	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Arsenic</b>	<b>2.7</b>		0.52	0.10	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Barium</b>	<b>7.5</b>		0.52	0.056	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Beryllium</b>	<b>0.16</b>	<b>J</b>	0.21	0.042	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Boron</b>	<b>4.2</b>		2.6	0.52	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Cadmium</b>	<b>0.18</b>		0.10	0.013	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Calcium</b>	<b>65000</b>		100	28	mg/Kg	☼	04/21/14 09:25	04/23/14 03:29	10
<b>Chromium</b>	<b>4.4</b>		0.52	0.061	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Cobalt</b>	<b>3.1</b>		0.26	0.052	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Copper</b>	<b>8.4</b>		0.52	0.10	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Iron</b>	<b>5700</b>		10	4.3	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Lead</b>	<b>16</b>		0.26	0.078	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Magnesium</b>	<b>31000</b>		5.2	1.1	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Manganese</b>	<b>150</b>		0.52	0.10	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Nickel</b>	<b>6.5</b>		0.52	0.10	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Potassium</b>	<b>440</b>		26	1.6	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Selenium</b>	<b>0.46</b>	<b>J</b>	0.52	0.19	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Sodium</b>	<b>940</b>		52	7.0	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Vanadium</b>	<b>7.3</b>		0.26	0.039	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1
<b>Zinc</b>	<b>18</b>		1.0	0.21	mg/Kg	☼	04/21/14 09:25	04/22/14 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 11:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 11:57	1
<b>Boron</b>	<b>0.69</b>	<b>J</b>	0.70	0.050	mg/L		04/22/14 13:30	04/23/14 11:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-1**

**Lab Sample ID: 500-75311-32**

Date Collected: 04/17/14 10:30

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 11:57	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:57	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:57	1
<b>Iron</b>	<b>1.4</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 11:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 11:57	1
<b>Manganese</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:57	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:57	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 11:57	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 11:57	1
<b>Zinc</b>	<b>0.13</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 11:57	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		04/22/14 13:30	04/23/14 11:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:54	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		04/23/14 17:55	04/28/14 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.045</b>		0.018	0.0072	mg/Kg	☆	04/24/14 16:24	04/28/14 11:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.62</b>		0.200	0.200	SU			04/27/14 07:37	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-2**

**Lab Sample ID: 500-75311-33**

**Date Collected: 04/17/14 10:35**

**Matrix: Solid**

**Date Received: 04/18/14 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	<0.0049		0.0049	0.0021	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	04/18/14 07:35	04/23/14 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	04/18/14 07:35	04/23/14 13:47	1
Dibromofluoromethane	106		75 - 120	04/18/14 07:35	04/23/14 13:47	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	04/18/14 07:35	04/23/14 13:47	1
Toluene-d8 (Surr)	105		75 - 122	04/18/14 07:35	04/23/14 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-2**

**Lab Sample ID: 500-75311-33**

Date Collected: 04/17/14 10:35

Matrix: Solid

Date Received: 04/18/14 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	<0.21		0.21	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
<b>Naphthalene</b>	<b>0.011</b>	<b>J</b>	0.041	0.0063	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
<b>2-Methylnaphthalene</b>	<b>0.042</b>		0.041	0.0075	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
<b>Phenanthrene</b>	<b>0.11</b>		0.041	0.0057	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
<b>Pyrene</b>	<b>0.050</b>		0.041	0.0081	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-2**

**Lab Sample ID: 500-75311-33**

Date Collected: 04/17/14 10:35

Matrix: Solid

Date Received: 04/18/14 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
<b>Chrysene</b>	<b>0.021</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	04/22/14 07:07	04/29/14 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	04/22/14 07:07	04/29/14 23:09	1
Phenol-d5	53		31 - 110	04/22/14 07:07	04/29/14 23:09	1
Nitrobenzene-d5	50		25 - 115	04/22/14 07:07	04/29/14 23:09	1
2-Fluorobiphenyl	61		25 - 119	04/22/14 07:07	04/29/14 23:09	1
2,4,6-Tribromophenol	42		35 - 137	04/22/14 07:07	04/29/14 23:09	1
Terphenyl-d14	150	X	36 - 134	04/22/14 07:07	04/29/14 23:09	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.51</b>	<b>J</b>	1.2	0.48	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Arsenic</b>	<b>8.2</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Barium</b>	<b>35</b>		0.59	0.063	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.047	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Boron</b>	<b>14</b>		3.0	0.59	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Cadmium</b>	<b>0.19</b>		0.12	0.015	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Calcium</b>	<b>55000</b>		120	32	mg/Kg	☼	04/21/14 09:25	04/23/14 03:33	10
<b>Chromium</b>	<b>13</b>		0.59	0.069	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Cobalt</b>	<b>13</b>		0.30	0.059	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Copper</b>	<b>30</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Iron</b>	<b>17000</b>		12	4.9	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Lead</b>	<b>15</b>		0.30	0.088	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Magnesium</b>	<b>23000</b>		5.9	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Manganese</b>	<b>290</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Nickel</b>	<b>32</b>		0.59	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Potassium</b>	<b>2400</b>		30	1.8	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Selenium</b>	<b>0.90</b>		0.59	0.21	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Sodium</b>	<b>1100</b>		59	7.9	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Thallium</b>	<b>0.61</b>		0.59	0.25	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Vanadium</b>	<b>15</b>		0.30	0.044	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1
<b>Zinc</b>	<b>47</b>		1.2	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 04:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 18:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-2**

**Lab Sample ID: 500-75311-33**

Date Collected: 04/17/14 10:35

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 12:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 12:01	1
<b>Boron</b>	<b>0.89</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 12:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 12:01	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:01	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:01	1
<b>Iron</b>	<b>4.8</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 12:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 12:01	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:01	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:01	1
Selenium	<0.050	<b>^</b>	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 12:01	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:01	1
<b>Zinc</b>	<b>0.15</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 12:01	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		04/22/14 13:30	04/23/14 11:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 11:57	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		04/23/14 17:55	04/28/14 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.020	0.0080	mg/Kg	✱	04/24/14 16:24	04/28/14 11:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.75</b>		0.200	0.200	SU			04/27/14 08:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-3**

**Lab Sample ID: 500-75311-34**

**Date Collected: 04/17/14 10:40**

**Matrix: Solid**

**Date Received: 04/18/14 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	<0.0050		0.0050	0.0022	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	04/18/14 07:35	04/23/14 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	04/18/14 07:35	04/23/14 14:11	1
Dibromofluoromethane	104		75 - 120	04/18/14 07:35	04/23/14 14:11	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/18/14 07:35	04/23/14 14:11	1
Toluene-d8 (Surr)	106		75 - 122	04/18/14 07:35	04/23/14 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.091	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-3**

**Lab Sample ID: 500-75311-34**

Date Collected: 04/17/14 10:40

Matrix: Solid

Date Received: 04/18/14 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	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
<b>2-Methylnaphthalene</b>	<b>0.038</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
<b>Phenanthrene</b>	<b>0.098</b>		0.040	0.0057	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Fluoranthene	<0.040		0.040	0.0076	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
<b>Pyrene</b>	<b>0.042</b>		0.040	0.0081	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.040	0.0055	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-3**

**Lab Sample ID: 500-75311-34**

Date Collected: 04/17/14 10:40

Matrix: Solid

Date Received: 04/18/14 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
<b>Chrysene</b>	<b>0.033</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Di-n-octyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:07	04/29/14 23:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	52		25 - 110				04/22/14 07:07	04/29/14 23:28	1
Phenol-d5	48		31 - 110				04/22/14 07:07	04/29/14 23:28	1
Nitrobenzene-d5	48		25 - 115				04/22/14 07:07	04/29/14 23:28	1
2-Fluorobiphenyl	58		25 - 119				04/22/14 07:07	04/29/14 23:28	1
2,4,6-Tribromophenol	39		35 - 137				04/22/14 07:07	04/29/14 23:28	1
Terphenyl-d14	165	X	36 - 134				04/22/14 07:07	04/29/14 23:28	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Arsenic</b>	<b>7.3</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Barium</b>	<b>35</b>		0.58	0.062	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Beryllium</b>	<b>0.58</b>		0.23	0.047	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Boron</b>	<b>13</b>		2.9	0.58	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Cadmium</b>	<b>0.17</b>		0.12	0.015	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Calcium</b>	<b>56000</b>		120	32	mg/Kg	☼	04/21/14 09:25	04/23/14 03:45	10
<b>Chromium</b>	<b>13</b>		0.58	0.068	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Cobalt</b>	<b>13</b>		0.29	0.058	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Copper</b>	<b>26</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Iron</b>	<b>18000</b>		12	4.8	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Lead</b>	<b>14</b>		0.29	0.087	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Magnesium</b>	<b>24000</b>		5.8	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Manganese</b>	<b>350</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Nickel</b>	<b>31</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Potassium</b>	<b>2300</b>		29	1.8	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Selenium</b>	<b>0.79</b>		0.58	0.21	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Sodium</b>	<b>210</b>		58	7.8	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Thallium</b>	<b>0.34</b>	<b>J</b>	0.58	0.25	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Vanadium</b>	<b>15</b>		0.29	0.043	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1
<b>Zinc</b>	<b>48</b>		1.2	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 04:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 18:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B05-3**

**Lab Sample ID: 500-75311-34**

Date Collected: 04/17/14 10:40

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 12:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 12:05	1
<b>Boron</b>	<b>0.84</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 12:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 12:05	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:05	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:05	1
<b>Iron</b>	<b>2.4</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 12:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 12:05	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:05	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:05	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 12:05	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:05	1
<b>Zinc</b>	<b>0.14</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 12:05	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		04/22/14 13:30	04/23/14 12:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 12:00	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		04/23/14 17:55	04/28/14 16:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>		0.020	0.0080	mg/Kg	☆	04/24/14 16:24	04/28/14 11:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.73</b>		0.200	0.200	SU			04/27/14 08:38	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-1**

**Lab Sample ID: 500-75311-35**

**Date Collected: 04/17/14 09:00**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	04/18/14 07:35	04/23/14 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	04/18/14 07:35	04/23/14 14:35	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/23/14 14:35	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/18/14 07:35	04/23/14 14:35	1
Toluene-d8 (Surr)	107		75 - 122	04/18/14 07:35	04/23/14 14:35	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	☼	04/22/14 07:07	04/29/14 23:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-1**

**Lab Sample ID: 500-75311-35**

Date Collected: 04/17/14 09:00

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.7

**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	☼	04/22/14 07:07	04/29/14 23:46	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
<b>Naphthalene</b>	<b>0.010</b>	<b>J</b>	0.040	0.0061	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
<b>2-Methylnaphthalene</b>	<b>0.035</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Hexachlorobenzene	<0.080		0.080	0.0093	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
<b>Phenanthrene</b>	<b>0.11</b>		0.040	0.0056	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
<b>Pyrene</b>	<b>0.044</b>		0.040	0.0079	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-1**

**Lab Sample ID: 500-75311-35**

Date Collected: 04/17/14 09:00

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.018</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:07	04/29/14 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	04/22/14 07:07	04/29/14 23:46	1
Phenol-d5	45		31 - 110	04/22/14 07:07	04/29/14 23:46	1
Nitrobenzene-d5	40		25 - 115	04/22/14 07:07	04/29/14 23:46	1
2-Fluorobiphenyl	48		25 - 119	04/22/14 07:07	04/29/14 23:46	1
2,4,6-Tribromophenol	41		35 - 137	04/22/14 07:07	04/29/14 23:46	1
Terphenyl-d14	124		36 - 134	04/22/14 07:07	04/29/14 23:46	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	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Arsenic</b>	<b>7.3</b>		0.58	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Barium</b>	<b>33</b>		0.58	0.062	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Beryllium</b>	<b>0.52</b>		0.23	0.046	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Boron</b>	<b>12</b>		2.9	0.58	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Cadmium</b>	<b>0.16</b>		0.12	0.015	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Calcium</b>	<b>52000</b>		120	31	mg/Kg	☼	04/21/14 09:25	04/23/14 03:49	10
<b>Chromium</b>	<b>13</b>		0.58	0.067	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Cobalt</b>	<b>13</b>		0.29	0.058	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Copper</b>	<b>30</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Iron</b>	<b>16000</b>		12	4.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Lead</b>	<b>15</b>		0.29	0.086	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Magnesium</b>	<b>23000</b>		5.8	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Manganese</b>	<b>290</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Nickel</b>	<b>30</b>		0.58	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Potassium</b>	<b>2200</b>		29	1.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Selenium</b>	<b>0.80</b>		0.58	0.20	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Sodium</b>	<b>740</b>		58	7.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Thallium</b>	<b>0.42</b>	<b>J</b>	0.58	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Vanadium</b>	<b>15</b>		0.29	0.043	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1
<b>Zinc</b>	<b>43</b>		1.2	0.23	mg/Kg	☼	04/21/14 09:25	04/22/14 04:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 18:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-1**

**Lab Sample ID: 500-75311-35**

Date Collected: 04/17/14 09:00

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 12:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 12:09	1
<b>Boron</b>	<b>0.83</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 12:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 12:09	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:09	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:09	1
<b>Iron</b>	<b>2.3</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 12:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 12:09	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:09	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:09	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 12:09	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:09	1
<b>Zinc</b>	<b>0.14</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 12:09	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		04/22/14 13:30	04/23/14 12:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 12:08	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		04/23/14 17:55	04/28/14 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.023</b>		0.020	0.0080	mg/Kg	☆	04/24/14 16:24	04/28/14 11:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.54</b>		0.200	0.200	SU			04/27/14 09:09	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-2**

**Lab Sample ID: 500-75311-36**

Date Collected: 04/17/14 09:05

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Styrene	<0.0051		0.0051	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Trichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Vinyl acetate	<0.0051		0.0051	0.00079	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	04/18/14 07:35	04/23/14 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	04/18/14 07:35	04/23/14 14:59	1
Dibromofluoromethane	107		75 - 120	04/18/14 07:35	04/23/14 14:59	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	04/18/14 07:35	04/23/14 14:59	1
Toluene-d8 (Surr)	105		75 - 122	04/18/14 07:35	04/23/14 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21	*	0.21	0.091	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-2**

**Lab Sample ID: 500-75311-36**

Date Collected: 04/17/14 09:05

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
<b>2-Methylnaphthalene</b>	<b>0.028</b>	<b>J</b>	0.041	0.0075	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
<b>Phenanthrene</b>	<b>0.10</b>		0.041	0.0057	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
<b>Pyrene</b>	<b>0.021</b>	<b>J</b>	0.041	0.0081	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
<b>Benzo[a]anthracene</b>	<b>0.0095</b>	<b>J</b>	0.041	0.0055	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-2**

**Lab Sample ID: 500-75311-36**

Date Collected: 04/17/14 09:05

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.041	0.013	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	04/22/14 07:07	04/27/14 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	04/22/14 07:07	04/27/14 03:39	1
Phenol-d5	50		31 - 110	04/22/14 07:07	04/27/14 03:39	1
Nitrobenzene-d5	54		25 - 115	04/22/14 07:07	04/27/14 03:39	1
2-Fluorobiphenyl	57		25 - 119	04/22/14 07:07	04/27/14 03:39	1
2,4,6-Tribromophenol	58		35 - 137	04/22/14 07:07	04/27/14 03:39	1
Terphenyl-d14	74		36 - 134	04/22/14 07:07	04/27/14 03:39	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Arsenic</b>	<b>8.5</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Barium</b>	<b>30</b>		0.57	0.061	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Beryllium</b>	<b>0.52</b>		0.23	0.045	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Boron</b>	<b>12</b>		2.8	0.57	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Cadmium</b>	<b>0.16</b>		0.11	0.014	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Calcium</b>	<b>56000</b>		110	31	mg/Kg	☼	04/21/14 09:25	04/23/14 03:53	10
<b>Chromium</b>	<b>12</b>		0.57	0.066	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Cobalt</b>	<b>13</b>		0.28	0.057	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Copper</b>	<b>31</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Iron</b>	<b>17000</b>		11	4.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Lead</b>	<b>17</b>		0.28	0.085	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Magnesium</b>	<b>24000</b>		5.7	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Manganese</b>	<b>320</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Nickel</b>	<b>32</b>		0.57	0.11	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Potassium</b>	<b>2200</b>		28	1.7	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Selenium</b>	<b>0.95</b>		0.57	0.20	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Sodium</b>	<b>220</b>		57	7.6	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Thallium</b>	<b>0.45</b>	<b>J</b>	0.57	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Vanadium</b>	<b>14</b>		0.28	0.042	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1
<b>Zinc</b>	<b>42</b>		1.1	0.23	mg/Kg	☼	04/21/14 09:25	04/22/14 04:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 12:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 12:21	1
<b>Boron</b>	<b>0.78</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 12:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-2**

**Lab Sample ID: 500-75311-36**

Date Collected: 04/17/14 09:05

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 12:21	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:21	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:21	1
<b>Iron</b>	<b>1.6</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 12:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 12:21	1
<b>Manganese</b>	<b>0.097</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:21	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:21	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 12:21	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:21	1
<b>Zinc</b>	<b>0.13</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 12:21	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		04/22/14 13:30	04/23/14 12:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 12:10	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		04/23/14 17:55	04/28/14 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.026</b>		0.021	0.0081	mg/Kg	☆	04/24/14 16:24	04/28/14 11:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.82</b>		0.200	0.200	SU			04/27/14 09:40	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-3**

**Lab Sample ID: 500-75311-37**

**Date Collected: 04/17/14 09:10**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0049	0.0021	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	04/18/14 07:35	04/23/14 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	04/18/14 07:35	04/23/14 15:23	1
Dibromofluoromethane	108		75 - 120	04/18/14 07:35	04/23/14 15:23	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/18/14 07:35	04/23/14 15:23	1
Toluene-d8 (Surr)	104		75 - 122	04/18/14 07:35	04/23/14 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-3**

**Lab Sample ID: 500-75311-37**

**Date Collected: 04/17/14 09:10**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
<b>Naphthalene</b>	<b>0.0094</b>	<b>J</b>	0.041	0.0063	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
<b>2-Methylnaphthalene</b>	<b>0.023</b>	<b>J</b>	0.041	0.0076	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
<b>Phenanthrene</b>	<b>0.099</b>		0.041	0.0058	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
<b>Pyrene</b>	<b>0.046</b>		0.041	0.0082	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-3**

**Lab Sample ID: 500-75311-37**

Date Collected: 04/17/14 09:10

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.018</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	04/22/14 07:07	04/30/14 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	04/22/14 07:07	04/30/14 00:05	1
Phenol-d5	54		31 - 110	04/22/14 07:07	04/30/14 00:05	1
Nitrobenzene-d5	53		25 - 115	04/22/14 07:07	04/30/14 00:05	1
2-Fluorobiphenyl	56		25 - 119	04/22/14 07:07	04/30/14 00:05	1
2,4,6-Tribromophenol	45		35 - 137	04/22/14 07:07	04/30/14 00:05	1
Terphenyl-d14	186	X	36 - 134	04/22/14 07:07	04/30/14 00:05	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	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Arsenic</b>	<b>8.1</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Barium</b>	<b>36</b>		0.61	0.065	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Beryllium</b>	<b>0.58</b>		0.24	0.049	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Boron</b>	<b>14</b>		3.0	0.61	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Cadmium</b>	<b>0.19</b>		0.12	0.015	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Calcium</b>	<b>52000</b>		120	33	mg/Kg	☼	04/21/14 09:25	04/23/14 03:57	10
<b>Chromium</b>	<b>14</b>		0.61	0.070	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Cobalt</b>	<b>14</b>		0.30	0.061	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Copper</b>	<b>29</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Iron</b>	<b>18000</b>		12	5.0	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Lead</b>	<b>15</b>		0.30	0.090	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Magnesium</b>	<b>22000</b>		6.1	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Manganese</b>	<b>300</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Nickel</b>	<b>34</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Potassium</b>	<b>2400</b>		30	1.8	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Selenium</b>	<b>0.88</b>		0.61	0.22	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Sodium</b>	<b>190</b>		61	8.1	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Thallium</b>	<b>0.45</b>	<b>J</b>	0.61	0.26	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Vanadium</b>	<b>16</b>		0.30	0.045	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1
<b>Zinc</b>	<b>54</b>		1.2	0.25	mg/Kg	☼	04/21/14 09:25	04/22/14 04:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 18:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-3**

**Lab Sample ID: 500-75311-37**

Date Collected: 04/17/14 09:10

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 12:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 12:25	1
<b>Boron</b>	<b>0.83</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 12:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 12:25	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:25	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:25	1
<b>Iron</b>	<b>2.3</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 12:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 12:25	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:25	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:25	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 12:25	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:25	1
<b>Zinc</b>	<b>0.13</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 12:25	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		04/22/14 13:30	04/23/14 12:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 12:13	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		04/23/14 17:55	04/28/14 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.019	0.0074	mg/Kg	✱	04/24/14 16:24	04/28/14 11:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.43</b>		0.200	0.200	SU			04/27/14 10:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-3 Dup**

**Lab Sample ID: 500-75311-38**

**Date Collected: 04/17/14 09:10**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	04/18/14 07:35	04/23/14 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	04/18/14 07:35	04/23/14 15:47	1
Dibromofluoromethane	106		75 - 120	04/18/14 07:35	04/23/14 15:47	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	04/18/14 07:35	04/23/14 15:47	1
Toluene-d8 (Surr)	108		75 - 122	04/18/14 07:35	04/23/14 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20	*	0.20	0.088	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-3 Dup**

**Lab Sample ID: 500-75311-38**

Date Collected: 04/17/14 09:10

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 79.4

**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	☼	04/22/14 07:07	04/30/14 14:11	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
<b>2-Methylnaphthalene</b>	<b>0.030</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
<b>Acenaphthylene</b>	<b>0.026</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
<b>Phenanthrene</b>	<b>0.077</b>		0.039	0.0055	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
<b>Anthracene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0066	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
<b>Pyrene</b>	<b>0.019</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-3 Dup**

**Lab Sample ID: 500-75311-38**

Date Collected: 04/17/14 09:10

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.029</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
<b>Di-n-octyl phthalate</b>	<b>0.096</b>	<b>J</b>	0.20	0.064	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
<b>Benzo[b]fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
<b>Benzo[g,h,i]perylene</b>	<b>0.030</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/22/14 07:07	04/30/14 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	04/22/14 07:07	04/30/14 14:11	1
Phenol-d5	53		31 - 110	04/22/14 07:07	04/30/14 14:11	1
Nitrobenzene-d5	52		25 - 115	04/22/14 07:07	04/30/14 14:11	1
2-Fluorobiphenyl	56		25 - 119	04/22/14 07:07	04/30/14 14:11	1
2,4,6-Tribromophenol	54		35 - 137	04/22/14 07:07	04/30/14 14:11	1
Terphenyl-d14	107		36 - 134	04/22/14 07:07	04/30/14 14:11	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Arsenic</b>	<b>6.9</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Barium</b>	<b>35</b>		0.60	0.064	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.048	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Boron</b>	<b>14</b>		3.0	0.60	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Cadmium</b>	<b>0.16</b>		0.12	0.015	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Calcium</b>	<b>50000</b>		120	32	mg/Kg	☼	04/21/14 09:25	04/23/14 04:01	10
<b>Chromium</b>	<b>14</b>		0.60	0.069	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Cobalt</b>	<b>12</b>		0.30	0.060	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Copper</b>	<b>25</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Iron</b>	<b>16000</b>		12	4.9	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Lead</b>	<b>14</b>		0.30	0.089	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Magnesium</b>	<b>21000</b>		6.0	1.2	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Manganese</b>	<b>270</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Nickel</b>	<b>30</b>		0.60	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Potassium</b>	<b>2400</b>		30	1.8	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Selenium</b>	<b>0.80</b>		0.60	0.21	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Sodium</b>	<b>190</b>		60	8.0	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Thallium</b>	<b>0.49</b>	<b>J</b>	0.60	0.25	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Vanadium</b>	<b>15</b>		0.30	0.044	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1
<b>Zinc</b>	<b>56</b>		1.2	0.24	mg/Kg	☼	04/21/14 09:25	04/22/14 05:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 18:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B06-3 Dup**

**Lab Sample ID: 500-75311-38**

Date Collected: 04/17/14 09:10

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 12:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 12:29	1
<b>Boron</b>	<b>0.73</b>		0.70	0.050	mg/L		04/22/14 13:30	04/23/14 12:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 12:29	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:29	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:29	1
<b>Iron</b>	<b>2.1</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 12:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 12:29	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:29	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:29	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 12:29	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:29	1
<b>Zinc</b>	<b>0.10</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 12:29	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		04/22/14 13:30	04/23/14 12:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 12:16	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		04/23/14 17:55	04/28/14 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.019	0.0075	mg/Kg	✱	04/24/14 16:24	04/28/14 11:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.15</b>		0.200	0.200	SU			04/27/14 10:41	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-3 Dup**

**Lab Sample ID: 500-75311-39**

**Date Collected: 04/17/14 10:00**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 79.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
1,1,1-Dichloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	04/18/14 07:35	04/23/14 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	04/18/14 07:35	04/23/14 16:11	1
Dibromofluoromethane	109		75 - 120	04/18/14 07:35	04/23/14 16:11	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	04/18/14 07:35	04/23/14 16:11	1
Toluene-d8 (Surr)	105		75 - 122	04/18/14 07:35	04/23/14 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20	*	0.20	0.090	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-3 Dup**

**Lab Sample ID: 500-75311-39**

**Date Collected: 04/17/14 10:00**

**Matrix: Solid**

**Date Received: 04/18/14 06:30**

**Percent Solids: 79.8**

**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	0.049	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
<b>2-Methylnaphthalene</b>	<b>0.041</b>		0.040	0.0075	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
<b>Phenanthrene</b>	<b>0.079</b>		0.040	0.0057	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
<b>Anthracene</b>	<b>0.0088</b>	<b>J</b>	0.040	0.0068	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
<b>Pyrene</b>	<b>0.020</b>	<b>J</b>	0.040	0.0081	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-3 Dup**

**Lab Sample ID: 500-75311-39**

Date Collected: 04/17/14 10:00

Matrix: Solid

Date Received: 04/18/14 06:30

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.031</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
<b>Di-n-octyl phthalate</b>	<b>0.31</b>		0.20	0.066	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
<b>Benzo[b]fluoranthene</b>	<b>0.024</b>	<b>J</b>	0.040	0.0088	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
<b>Benzo[g,h,i]perylene</b>	<b>0.036</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	04/22/14 07:07	04/30/14 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110	04/22/14 07:07	04/30/14 14:28	1
Phenol-d5	48		31 - 110	04/22/14 07:07	04/30/14 14:28	1
Nitrobenzene-d5	45		25 - 115	04/22/14 07:07	04/30/14 14:28	1
2-Fluorobiphenyl	54		25 - 119	04/22/14 07:07	04/30/14 14:28	1
2,4,6-Tribromophenol	76		35 - 137	04/22/14 07:07	04/30/14 14:28	1
Terphenyl-d14	97		36 - 134	04/22/14 07:07	04/30/14 14:28	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	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Arsenic</b>	<b>7.6</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Barium</b>	<b>36</b>		0.61	0.065	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.049	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Boron</b>	<b>14</b>		3.0	0.61	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Cadmium</b>	<b>0.24</b>		0.12	0.015	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Calcium</b>	<b>52000</b>		120	33	mg/Kg	☼	04/21/14 09:25	04/23/14 04:05	10
<b>Chromium</b>	<b>14</b>		0.61	0.071	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Cobalt</b>	<b>13</b>		0.30	0.061	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Copper</b>	<b>26</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Iron</b>	<b>17000</b>		12	5.0	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Lead</b>	<b>15</b>		0.30	0.091	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Magnesium</b>	<b>22000</b>		6.1	1.3	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Manganese</b>	<b>280</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Nickel</b>	<b>32</b>		0.61	0.12	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Potassium</b>	<b>2400</b>		30	1.8	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Selenium</b>	<b>0.60</b>	<b>J</b>	0.61	0.22	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Sodium</b>	<b>190</b>		61	8.1	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Thallium</b>	<b>0.57</b>	<b>J</b>	0.61	0.26	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Vanadium</b>	<b>16</b>		0.30	0.045	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1
<b>Zinc</b>	<b>74</b>		1.2	0.25	mg/Kg	☼	04/21/14 09:25	04/22/14 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		04/28/14 07:30	04/28/14 18:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

**Client Sample ID: 2615-219-B04-3 Dup**

**Lab Sample ID: 500-75311-39**

Date Collected: 04/17/14 10:00

Matrix: Solid

Date Received: 04/18/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		04/22/14 13:30	04/23/14 12:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/22/14 13:30	04/23/14 12:33	1
<b>Boron</b>	<b>0.41</b>	<b>J</b>	0.70	0.050	mg/L		04/22/14 13:30	04/23/14 12:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/22/14 13:30	04/23/14 12:33	1
Chromium	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:33	1
Cobalt	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:33	1
<b>Iron</b>	<b>2.2</b>		0.20	0.20	mg/L		04/22/14 13:30	04/23/14 12:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/22/14 13:30	04/23/14 12:33	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:33	1
Nickel	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:33	1
Selenium	<0.050	^	0.050	0.010	mg/L		04/22/14 13:30	04/23/14 12:33	1
Silver	<0.025		0.025	0.010	mg/L		04/22/14 13:30	04/23/14 12:33	1
<b>Zinc</b>	<b>0.054</b>	<b>J</b>	0.20	0.020	mg/L		04/22/14 13:30	04/23/14 12:33	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		04/22/14 13:30	04/23/14 12:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/22/14 13:30	04/23/14 12:18	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		04/23/14 17:55	04/28/14 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.022</b>		0.019	0.0075	mg/Kg	☆	04/24/14 16:24	04/28/14 11:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.98</b>		0.200	0.200	SU			04/27/14 11:12	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75311-4

## 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

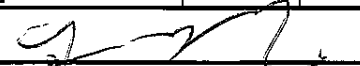
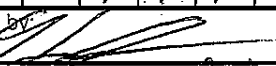
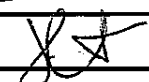
### Metals

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.
^	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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com					<b>Laboratory</b> Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com					Project Name: <u>I90/94 Chicago Cook</u> Project No.: <u>IDOT2013-061</u> TAT: <del>10 BD</del> <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CF</u>					COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-75311</u> Sample Temp:	
<b>Special Instructions:</b> 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.					<b>ANALYSES</b>										<b>Matrix Key:</b> W: Water S: Soil SL: Sludge L: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other	
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
22	2615-219-B01-1	4/17		S	X	X					X	X	X	X		0-8'
23	2615-219-B01-2															<del>0-8'</del>
24	2615-219-B01-3															<del>16-24'</del>
25	2615-219-B02															<del>0-8'</del>
26	2615-219-B03-1		10:45													0-8'
27	2615-219-B03-2		10:50													8-16'
28	2615-219-B03-3		10:55													16-24'
29	2615-219-B04-1		9:50													0-8'
30	2615-219-B04-2		9:55													8-16'
31	2615-219-B04-3		10:00													16-24'
32	2615-219-B05-1		10:30													0-8'
33	2615-219-B05-2		10:35	S	X	X					X	X	X	X		8-16'
Relinquished by: 			Date/Time: <u>4/17/14 1530</u>		Received by: 			Date/Time: <u>4/17/14 1530</u>								
Relinquished by:			Date/Time:		Received by: 			Date/Time: <u>4/18/14 0630</u>								
Relinquished by:			Date/Time:		Received by:			Date/Time:								



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	Project Name: <u>I90/94 Chicago Cook</u>	COC No.: <u>2</u> of <u>2</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project No.: <u>IDOT 2013-061</u> TAT: <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CF</u>	Lab Job No.: <u>500-75311</u> Sample Temp:

**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											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	

**Matrix Key:**  
W: Water  
S: Soil  
SL: Sludge  
S: Sediment  
L: Leachate  
DW: Drinking Water  
OL: Oil  
O: Other

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
34	2615-219-B05-3	4/17	10:48	S	X	X					X	X	X	X		16-24'
35	2615-219-B06-1		9:00	S	↓	↓					↓	↓	↓	↓		0-8'
36	2615-219-B06-2		9:05	S	↓	↓					↓	↓	↓	↓		8-16'
37	2615-219-B06-3	✓	9:10	S	↓	↓					↓	↓	↓	↓		16-24'
38	2615-219-B06-3 DUP	4/17	9:10	S	↓	↓					↓	↓	↓	↓		16-24'
39	2615-219-B04-3 DUP	4/17	9:00	S	↓	↓					↓	↓	↓	↓		16-24'

Relinquished by:	Date/Time: <u>4/17/14 1530</u>	Received by:	Date/Time: <u>4/17/14 1530</u>
Relinquished by:	Date/Time:	Received by:	Date/Time: <u>4/18/14 0630</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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
707 W. Harrison Street

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87393 Longitude: -87.64460  
(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: 0316285211 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: IL

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: I-90/94 at I-290 (Circle Interchange)

Latitude: 41.87393 Longitude: -87.64460

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 2615-238-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE No. 2615-238. SEE FIGURES 4 AND 5 AND TABLE 3g 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75227-2

**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

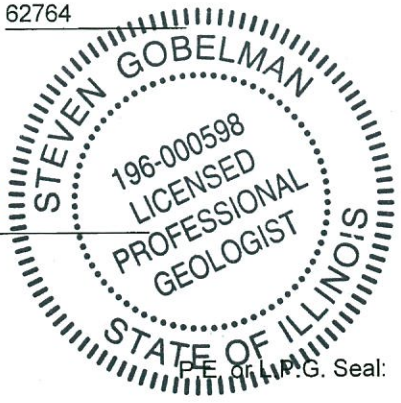
City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman  
Printed Name:

  
 \_\_\_\_\_  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/2/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-238**  
**Extra Space Storage**

<b>Sample ID</b>	2615-238-B01-1	2615-238-B01-2	2615-238-B01-3	2615-238-B01-3 DUP	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
<b>Sample Depth (ft)</b>	0-8	8-16	16-24	16-24						
<b>Sample Date</b>	4/16/2014	4/16/2014	4/16/2014	4/16/2014						
<b>PID</b>	0	0	0	0						
<b>Sample pH</b>	7.54	7.72	7.6	7.65						
<b>Matrix</b>	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>										

<b>Sample ID</b>	2615-238-B02-1	2615-238-B02-2	2615-238-B02-3	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
<b>Sample Depth (ft)</b>	0-8	8-16	16-24						
<b>Sample Date</b>	4/16/2014	4/16/2014	4/16/2014						
<b>PID</b>	0	0	0						
<b>Sample pH</b>	7.65	8.14	8.3						
<b>Matrix</b>	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>									

# 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: 500-75227-2

Client Project/Site: IDOT - I90/94 - WO 061

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

4/30/2014 2:06:51 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)



### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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

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9

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-1**

**Lab Sample ID: 500-75227-6**

**Date Collected: 04/16/14 12:10**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 85.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013		0.0044	0.0019	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Bromomethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Chloroethane	<0.0044	*	0.0044	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	04/17/14 07:20	04/19/14 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122	04/17/14 07:20	04/19/14 02:10	1
Dibromofluoromethane	112		75 - 120	04/17/14 07:20	04/19/14 02:10	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	04/17/14 07:20	04/19/14 02:10	1
Toluene-d8 (Surr)	101		75 - 122	04/17/14 07:20	04/19/14 02:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1

TestAmerica Chicago

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TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-1**

**Lab Sample ID: 500-75227-6**

Date Collected: 04/16/14 12:10

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 85.1

**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	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
<b>2-Methylnaphthalene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
<b>Fluorene</b>	<b>0.020</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
<b>Phenanthrene</b>	<b>0.065</b>		0.038	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
<b>Fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
<b>Pyrene</b>	<b>0.028</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1

TestAmerica Chicago



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**Lab Sample ID: 500-75227-6**

**Date Collected: 04/16/14 12:10**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 85.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.034</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
<b>Benzo[g,h,i]perylene</b>	<b>0.024</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 03:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	65		25 - 110				04/17/14 07:22	04/22/14 03:39	1
Phenol-d5	59		31 - 110				04/17/14 07:22	04/22/14 03:39	1
Nitrobenzene-d5	55		25 - 115				04/17/14 07:22	04/22/14 03:39	1
2-Fluorobiphenyl	67		25 - 119				04/17/14 07:22	04/22/14 03:39	1
2,4,6-Tribromophenol	92		35 - 137				04/17/14 07:22	04/22/14 03:39	1
Terphenyl-d14	114		36 - 134				04/17/14 07:22	04/22/14 03:39	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	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Arsenic</b>	<b>7.1</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Barium</b>	<b>18</b>		0.55	0.058	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Beryllium</b>	<b>0.40</b>		0.22	0.044	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Boron</b>	<b>6.7</b>	<b>B</b>	2.7	0.55	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Cadmium</b>	<b>0.097</b>	<b>J B</b>	0.11	0.014	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Calcium</b>	<b>26000</b>		11	3.0	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Chromium</b>	<b>9.4</b>		0.55	0.063	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Cobalt</b>	<b>14</b>		0.27	0.055	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Copper</b>	<b>27</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Iron</b>	<b>14000</b>		11	4.5	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Lead</b>	<b>14</b>		0.27	0.081	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Magnesium</b>	<b>15000</b>		5.5	1.1	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Manganese</b>	<b>200</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Nickel</b>	<b>30</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Potassium</b>	<b>1300</b>		27	1.6	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Selenium</b>	<b>0.93</b>		0.55	0.19	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Silver</b>	<b>0.043</b>	<b>J</b>	0.27	0.020	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Sodium</b>	<b>130</b>		55	7.3	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Thallium</b>	<b>0.74</b>		0.55	0.23	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Vanadium</b>	<b>10</b>		0.27	0.040	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1
<b>Zinc</b>	<b>46</b>		1.1	0.22	mg/Kg	☼	04/18/14 08:30	04/18/14 23:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.053</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:07	1
<b>Boron</b>	<b>0.88</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:07	1

TestAmerica Chicago

# Client Sample Results

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Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-1**

**Lab Sample ID: 500-75227-6**

Date Collected: 04/16/14 12:10

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:07	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:07	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:07	1
Iron	<0.20		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:07	1
<b>Manganese</b>	<b>0.059</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:07	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:07	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:07	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:07	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:07	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		04/21/14 07:15	04/22/14 11:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:14	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		04/21/14 16:00	04/22/14 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.018	0.0069	mg/Kg	☆	04/22/14 13:25	04/23/14 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.54</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-3 Dup**

**Lab Sample ID: 500-75227-7**

Date Collected: 04/16/14 12:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0046	0.0020	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Bromomethane	<0.0046 *		0.0046	0.0014	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Chloroethane	<0.0046 *		0.0046	0.0013	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00075	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	✱	04/17/14 07:20	04/19/14 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122	04/17/14 07:20	04/19/14 02:33	1
Dibromofluoromethane	112		75 - 120	04/17/14 07:20	04/19/14 02:33	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/17/14 07:20	04/19/14 02:33	1
Toluene-d8 (Surr)	101		75 - 122	04/17/14 07:20	04/19/14 02:33	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	✱	04/17/14 07:22	04/22/14 03:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✱	04/17/14 07:22	04/22/14 03:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	04/17/14 07:22	04/22/14 03:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	04/17/14 07:22	04/22/14 03:56	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-3 Dup**

**Lab Sample ID: 500-75227-7**

**Date Collected: 04/16/14 12:20**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 80.7**

**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	*	04/17/14 07:22	04/22/14 03:56	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
<b>Naphthalene</b>	<b>0.0079</b>	<b>J</b>	0.039	0.0060	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
<b>2-Methylnaphthalene</b>	<b>0.041</b>		0.039	0.0072	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
<b>Fluorene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0055	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
<b>Phenanthrene</b>	<b>0.12</b>		0.039	0.0054	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Carbazole	<0.20		0.20	0.10	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
<b>Fluoranthene</b>	<b>0.018</b>	<b>J</b>	0.039	0.0072	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
<b>Pyrene</b>	<b>0.042</b>		0.039	0.0078	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	*	04/17/14 07:22	04/22/14 03:56	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-3 Dup**

**Lab Sample ID: 500-75227-7**

**Date Collected: 04/16/14 12:20**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.035</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
<b>Benzo[g,h,i]perylene</b>	<b>0.037</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		25 - 110	04/17/14 07:22	04/22/14 03:56	1
Phenol-d5	62		31 - 110	04/17/14 07:22	04/22/14 03:56	1
Nitrobenzene-d5	59		25 - 115	04/17/14 07:22	04/22/14 03:56	1
2-Fluorobiphenyl	75		25 - 119	04/17/14 07:22	04/22/14 03:56	1
2,4,6-Tribromophenol	76		35 - 137	04/17/14 07:22	04/22/14 03:56	1
Terphenyl-d14	206	X	36 - 134	04/17/14 07:22	04/22/14 03:56	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Arsenic</b>	<b>6.8</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Barium</b>	<b>33</b>		0.62	0.066	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Beryllium</b>	<b>0.53</b>		0.25	0.050	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Boron</b>	<b>9.8</b>	<b>B</b>	3.1	0.62	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Cadmium</b>	<b>0.062</b>	<b>J B</b>	0.12	0.016	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Calcium</b>	<b>49000</b>		120	34	mg/Kg	☼	04/18/14 08:30	04/22/14 13:57	10
<b>Chromium</b>	<b>12</b>		0.62	0.072	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Cobalt</b>	<b>12</b>		0.31	0.062	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Copper</b>	<b>25</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Iron</b>	<b>17000</b>		12	5.1	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Lead</b>	<b>13</b>		0.31	0.092	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Magnesium</b>	<b>21000</b>		6.2	1.3	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Manganese</b>	<b>280</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Nickel</b>	<b>30</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Potassium</b>	<b>1900</b>		31	1.9	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Selenium</b>	<b>1.0</b>		0.62	0.22	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Sodium</b>	<b>150</b>		62	8.3	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Thallium</b>	<b>0.47</b>	<b>J</b>	0.62	0.26	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Vanadium</b>	<b>14</b>		0.31	0.046	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1
<b>Zinc</b>	<b>42</b>		1.2	0.25	mg/Kg	☼	04/18/14 08:30	04/18/14 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.062</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:11	1
<b>Boron</b>	<b>0.85</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-3 Dup**

**Lab Sample ID: 500-75227-7**

Date Collected: 04/16/14 12:20

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:11	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:11	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:11	1
<b>Iron</b>	<b>0.26</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:11	1
<b>Manganese</b>	<b>0.027</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:11	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:11	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:11	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:11	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:11	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		04/21/14 07:15	04/22/14 11:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:16	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		04/21/14 16:00	04/22/14 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.026</b>		0.019	0.0076	mg/Kg	☆	04/22/14 13:25	04/23/14 13:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.65</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-2**

**Lab Sample ID: 500-75227-8**

**Date Collected: 04/16/14 12:15**

**Matrix: Solid**

**Date Received: 04/17/14 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	0.0056		0.0050	0.0022	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Bromomethane	<0.0050	*	0.0050	0.0015	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
1,1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	04/17/14 07:20	04/19/14 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 122	04/17/14 07:20	04/19/14 02:56	1
Dibromofluoromethane	114		75 - 120	04/17/14 07:20	04/19/14 02:56	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	04/17/14 07:20	04/19/14 02:56	1
Toluene-d8 (Surr)	102		75 - 122	04/17/14 07:20	04/19/14 02:56	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	☼	04/17/14 07:22	04/22/14 04:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

Client Sample ID: 2615-238-B01-2

Lab Sample ID: 500-75227-8

Date Collected: 04/16/14 12:15

Matrix: Solid

Date Received: 04/17/14 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	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
<b>2-Methylnaphthalene</b>	<b>0.039</b>		0.039	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
<b>Fluorene</b>	<b>0.023 J</b>		0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
<b>Phenanthrene</b>	<b>0.091</b>		0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
<b>Fluoranthene</b>	<b>0.017 J</b>		0.039	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
<b>Pyrene</b>	<b>0.035 J</b>		0.039	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-2**

**Lab Sample ID: 500-75227-8**

Date Collected: 04/16/14 12:15

Matrix: Solid

Date Received: 04/17/14 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
<b>Chrysene</b>	<b>0.027</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
<b>Benzo[g,h,i]perylene</b>	<b>0.024</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	04/17/14 07:22	04/22/14 04:13	1
Phenol-d5	52		31 - 110	04/17/14 07:22	04/22/14 04:13	1
Nitrobenzene-d5	48		25 - 115	04/17/14 07:22	04/22/14 04:13	1
2-Fluorobiphenyl	62		25 - 119	04/17/14 07:22	04/22/14 04:13	1
2,4,6-Tribromophenol	66		35 - 137	04/17/14 07:22	04/22/14 04:13	1
Terphenyl-d14	191	X	36 - 134	04/17/14 07:22	04/22/14 04:13	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Arsenic</b>	<b>7.1</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Barium</b>	<b>37</b>		0.58	0.062	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Beryllium</b>	<b>0.58</b>		0.23	0.047	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Boron</b>	<b>11</b>	<b>B</b>	2.9	0.58	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Cadmium</b>	<b>0.069</b>	<b>J B</b>	0.12	0.015	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Calcium</b>	<b>42000</b>		120	32	mg/Kg	☼	04/18/14 08:30	04/22/14 14:01	10
<b>Chromium</b>	<b>14</b>		0.58	0.068	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Cobalt</b>	<b>13</b>		0.29	0.058	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Copper</b>	<b>27</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Iron</b>	<b>17000</b>		12	4.8	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Lead</b>	<b>14</b>		0.29	0.087	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Magnesium</b>	<b>20000</b>		5.8	1.2	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Manganese</b>	<b>280</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Nickel</b>	<b>33</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Potassium</b>	<b>2200</b>		29	1.8	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Selenium</b>	<b>0.81</b>		0.58	0.21	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Sodium</b>	<b>140</b>		58	7.8	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Thallium</b>	<b>0.48</b>	<b>J</b>	0.58	0.25	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Vanadium</b>	<b>15</b>		0.29	0.043	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1
<b>Zinc</b>	<b>46</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:30	04/18/14 23:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:15	1
<b>Boron</b>	<b>0.48</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-2**

**Lab Sample ID: 500-75227-8**

Date Collected: 04/16/14 12:15

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:15	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:15	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:15	1
Iron	<0.20		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:15	1
<b>Manganese</b>	<b>0.051</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:15	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:15	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:15	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:15	1
<b>Zinc</b>	<b>0.071</b>	<b>J</b>	0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:15	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		04/21/14 07:15	04/22/14 11:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:19	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		04/21/14 16:00	04/22/14 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.021	0.0081	mg/Kg	☆	04/22/14 13:25	04/23/14 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.72</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-3**

**Lab Sample ID: 500-75227-9**

**Date Collected: 04/16/14 12:20**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0091		0.0048	0.0021	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Bromomethane	<0.0048	*	0.0048	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
1,1,1-Dichloroethane	<0.0048		0.0048	0.00078	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	04/17/14 07:20	04/19/14 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 122	04/17/14 07:20	04/19/14 03:19	1
Dibromofluoromethane	112		75 - 120	04/17/14 07:20	04/19/14 03:19	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/17/14 07:20	04/19/14 03:19	1
Toluene-d8 (Surr)	101		75 - 122	04/17/14 07:20	04/19/14 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-3**

**Lab Sample ID: 500-75227-9**

Date Collected: 04/16/14 12:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.7

**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	☼	04/17/14 07:22	04/22/14 04:31	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>Naphthalene</b>	<b>0.0089</b>	<b>J</b>	0.040	0.0061	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>2-Methylnaphthalene</b>	<b>0.048</b>		0.040	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>Acenaphthylene</b>	<b>0.0060</b>	<b>J</b>	0.040	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>Fluorene</b>	<b>0.025</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>Phenanthrene</b>	<b>0.10</b>		0.040	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>Fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>Pyrene</b>	<b>0.036</b>	<b>J</b>	0.040	0.0079	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-3**

**Lab Sample ID: 500-75227-9**

Date Collected: 04/16/14 12:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.033</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.029</b>	<b>J B</b>	0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
<b>Benzo[g,h,i]perylene</b>	<b>0.031</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110	04/17/14 07:22	04/22/14 04:31	1
Phenol-d5	60		31 - 110	04/17/14 07:22	04/22/14 04:31	1
Nitrobenzene-d5	57		25 - 115	04/17/14 07:22	04/22/14 04:31	1
2-Fluorobiphenyl	73		25 - 119	04/17/14 07:22	04/22/14 04:31	1
2,4,6-Tribromophenol	67		35 - 137	04/17/14 07:22	04/22/14 04:31	1
Terphenyl-d14	168	X	36 - 134	04/17/14 07:22	04/22/14 04:31	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Arsenic</b>	<b>6.3</b>		0.57	0.11	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Barium</b>	<b>32</b>		0.57	0.061	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.046	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Boron</b>	<b>11</b>	<b>B</b>	2.9	0.57	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Cadmium</b>	<b>0.076</b>	<b>J B</b>	0.11	0.015	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Calcium</b>	<b>54000</b>		110	31	mg/Kg	☼	04/18/14 08:30	04/22/14 14:05	10
<b>Chromium</b>	<b>13</b>		0.57	0.067	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Cobalt</b>	<b>12</b>		0.29	0.057	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Copper</b>	<b>24</b>		0.57	0.11	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Iron</b>	<b>16000</b>		11	4.7	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Lead</b>	<b>13</b>		0.29	0.086	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Magnesium</b>	<b>24000</b>		5.7	1.2	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Manganese</b>	<b>260</b>		0.57	0.11	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Nickel</b>	<b>30</b>		0.57	0.11	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Potassium</b>	<b>1900</b>		29	1.7	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Selenium</b>	<b>0.82</b>		0.57	0.20	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Sodium</b>	<b>160</b>		57	7.7	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.57	0.24	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Vanadium</b>	<b>15</b>		0.29	0.042	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1
<b>Zinc</b>	<b>45</b>		1.1	0.23	mg/Kg	☼	04/18/14 08:30	04/18/14 23:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:19	1
<b>Boron</b>	<b>0.81</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:19	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B01-3**

**Lab Sample ID: 500-75227-9**

Date Collected: 04/16/14 12:20

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:19	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:19	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:19	1
<b>Iron</b>	<b>0.35</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:19	1
<b>Manganese</b>	<b>0.028</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:19	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:19	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:19	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:19	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:19	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		04/21/14 07:15	04/22/14 11:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:22	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		04/21/14 16:00	04/22/14 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.025</b>		0.020	0.0078	mg/Kg	☆	04/22/14 13:25	04/23/14 13:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.60</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B02-1**

**Lab Sample ID: 500-75227-10**

Date Collected: 04/16/14 12:55

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0072		0.0049	0.0021	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Bromomethane	<0.0049	*	0.0049	0.0015	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00089	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	04/17/14 07:20	04/19/14 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122	04/17/14 07:20	04/19/14 03:41	1
Dibromofluoromethane	110		75 - 120	04/17/14 07:20	04/19/14 03:41	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/17/14 07:20	04/19/14 03:41	1
Toluene-d8 (Surr)	102		75 - 122	04/17/14 07:20	04/19/14 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B02-1**

**Lab Sample ID: 500-75227-10**

Date Collected: 04/16/14 12:55

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.4

**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	☼	04/17/14 07:22	04/22/14 04:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
<b>Naphthalene</b>	<b>0.013</b>	<b>J</b>	0.040	0.0062	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
<b>2-Methylnaphthalene</b>	<b>0.050</b>		0.040	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
<b>Acenaphthene</b>	<b>0.0084</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
<b>Fluorene</b>	<b>0.027</b>	<b>J</b>	0.040	0.0057	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
<b>Phenanthrene</b>	<b>0.15</b>		0.040	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
<b>Fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
<b>Pyrene</b>	<b>0.051</b>		0.040	0.0080	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B02-1**

**Lab Sample ID: 500-75227-10**

Date Collected: 04/16/14 12:55

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.048</b>		0.040	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
<b>Benzo[g,h,i]perylene</b>	<b>0.034</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	04/17/14 07:22	04/22/14 04:48	1
Phenol-d5	59		31 - 110	04/17/14 07:22	04/22/14 04:48	1
Nitrobenzene-d5	60		25 - 115	04/17/14 07:22	04/22/14 04:48	1
2-Fluorobiphenyl	76		25 - 119	04/17/14 07:22	04/22/14 04:48	1
2,4,6-Tribromophenol	70		35 - 137	04/17/14 07:22	04/22/14 04:48	1
Terphenyl-d14	208	X	36 - 134	04/17/14 07:22	04/22/14 04:48	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.88</b>	<b>J</b>	1.2	0.47	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Arsenic</b>	<b>8.2</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Barium</b>	<b>33</b>		0.59	0.063	mg/Kg	☼	04/18/14 08:50	04/22/14 03:39	1
<b>Beryllium</b>	<b>0.52</b>		0.24	0.047	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Boron</b>	<b>12</b>		2.9	0.59	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Cadmium</b>	<b>0.80</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Calcium</b>	<b>43000</b>		12	3.2	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Chromium</b>	<b>16</b>		0.59	0.068	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Cobalt</b>	<b>12</b>		0.29	0.059	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Copper</b>	<b>32</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Iron</b>	<b>20000</b>		12	4.8	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Lead</b>	<b>14</b>		0.29	0.088	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Magnesium</b>	<b>23000</b>		5.9	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Manganese</b>	<b>350</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Nickel</b>	<b>30</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Potassium</b>	<b>2900</b>		29	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Selenium</b>	<b>0.49</b>	<b>J</b>	0.59	0.21	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Silver</b>	<b>0.059</b>	<b>J</b>	0.29	0.021	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Sodium</b>	<b>890</b>		59	7.9	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Thallium</b>	<b>0.73</b>		0.59	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Vanadium</b>	<b>17</b>		0.29	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1
<b>Zinc</b>	<b>37</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:23	1
<b>Boron</b>	<b>0.83</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B02-1**

**Lab Sample ID: 500-75227-10**

Date Collected: 04/16/14 12:55

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:23	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:23	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:23	1
Iron	<0.20		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:23	1
<b>Manganese</b>	<b>0.031</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:23	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:23	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:23	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:23	1
<b>Zinc</b>	<b>0.10</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:23	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		04/21/14 07:15	04/22/14 11:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:24	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		04/21/14 16:00	04/22/14 10:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.028</b>		0.019	0.0075	mg/Kg	☆	04/22/14 13:25	04/23/14 13:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.65</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B02-2**

**Lab Sample ID: 500-75227-11**

Date Collected: 04/16/14 13:00

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0048	0.0021	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Bromomethane	<0.0048	*	0.0048	0.0015	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	*	04/17/14 07:20	04/19/14 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 122	04/17/14 07:20	04/19/14 04:04	1
Dibromofluoromethane	113		75 - 120	04/17/14 07:20	04/19/14 04:04	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/17/14 07:20	04/19/14 04:04	1
Toluene-d8 (Surr)	104		75 - 122	04/17/14 07:20	04/19/14 04:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	*	04/17/14 07:22	04/22/14 05:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	*	04/17/14 07:22	04/22/14 05:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	04/17/14 07:22	04/22/14 05:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	*	04/17/14 07:22	04/22/14 05:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

Client Sample ID: 2615-238-B02-2

Lab Sample ID: 500-75227-11

Date Collected: 04/16/14 13:00

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.9

## 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	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
<b>2-Methylnaphthalene</b>	<b>0.024</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
<b>Fluorene</b>	<b>0.025</b>	<b>J</b>	0.040	0.0057	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
<b>Phenanthrene</b>	<b>0.10</b>		0.040	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
<b>Fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
<b>Pyrene</b>	<b>0.032</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

Client Sample ID: 2615-238-B02-2

Lab Sample ID: 500-75227-11

Date Collected: 04/16/14 13:00

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.032</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
<b>Benzo[g,h,i]perylene</b>	<b>0.026</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	04/17/14 07:22	04/22/14 05:05	1
Phenol-d5	58		31 - 110	04/17/14 07:22	04/22/14 05:05	1
Nitrobenzene-d5	57		25 - 115	04/17/14 07:22	04/22/14 05:05	1
2-Fluorobiphenyl	75		25 - 119	04/17/14 07:22	04/22/14 05:05	1
2,4,6-Tribromophenol	67		35 - 137	04/17/14 07:22	04/22/14 05:05	1
Terphenyl-d14	159	X	36 - 134	04/17/14 07:22	04/22/14 05:05	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.55</b>	<b>J</b>	1.2	0.47	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Arsenic</b>	<b>9.5</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Barium</b>	<b>36</b>		0.59	0.063	mg/Kg	☼	04/18/14 08:50	04/22/14 04:03	1
<b>Beryllium</b>	<b>0.54</b>		0.24	0.047	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Boron</b>	<b>13</b>		3.0	0.59	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Cadmium</b>	<b>0.91</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Calcium</b>	<b>45000</b>		12	3.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Chromium</b>	<b>16</b>		0.59	0.069	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Cobalt</b>	<b>13</b>		0.30	0.059	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Copper</b>	<b>36</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Iron</b>	<b>21000</b>		12	4.9	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Lead</b>	<b>15</b>		0.30	0.088	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Magnesium</b>	<b>23000</b>		5.9	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Manganese</b>	<b>340</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Nickel</b>	<b>33</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Potassium</b>	<b>2900</b>		30	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Selenium</b>	<b>0.62</b>		0.59	0.21	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Silver</b>	<b>0.076</b>	<b>J</b>	0.30	0.021	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Sodium</b>	<b>540</b>		59	7.9	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Thallium</b>	<b>0.97</b>		0.59	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Vanadium</b>	<b>18</b>		0.30	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1
<b>Zinc</b>	<b>49</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:28	1
<b>Boron</b>	<b>0.59</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B02-2**

**Lab Sample ID: 500-75227-11**

Date Collected: 04/16/14 13:00

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:28	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:28	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:28	1
<b>Iron</b>	<b>0.26</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:28	1
<b>Manganese</b>	<b>0.027</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:28	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:28	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:28	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:28	1
<b>Zinc</b>	<b>0.069</b>	<b>J</b>	0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:28	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		04/21/14 07:15	04/22/14 11:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:27	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		04/21/14 16:00	04/22/14 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.020	0.0077	mg/Kg	☆	04/22/14 13:25	04/23/14 13:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.14</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

Client Sample ID: 2615-238-B02-3

Lab Sample ID: 500-75227-12

Date Collected: 04/16/14 13:05

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0079		0.0051	0.0022	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Bromomethane	<0.0051	*	0.0051	0.0015	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Chloroethane	<0.0051	*	0.0051	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
1,1,1-Dichloroethane	<0.0051		0.0051	0.00083	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	04/17/14 07:20	04/19/14 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 122	04/17/14 07:20	04/19/14 04:27	1
Dibromofluoromethane	111		75 - 120	04/17/14 07:20	04/19/14 04:27	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/17/14 07:20	04/19/14 04:27	1
Toluene-d8 (Surr)	101		75 - 122	04/17/14 07:20	04/19/14 04:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1

TestAmerica Chicago

## Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

Client Sample ID: 2615-238-B02-3

Lab Sample ID: 500-75227-12

Date Collected: 04/16/14 13:05

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.3

## 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	☼	04/17/14 07:22	04/22/14 05:23	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
<b>Naphthalene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0061	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
<b>2-Methylnaphthalene</b>	<b>0.042</b>		0.039	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
<b>Acenaphthylene</b>	<b>0.0092</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
<b>Fluorene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
<b>Phenanthrene</b>	<b>0.094</b>		0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
<b>Fluoranthene</b>	<b>0.018</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
<b>Pyrene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0079	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B02-3**

**Lab Sample ID: 500-75227-12**

Date Collected: 04/16/14 13:05

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.034</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
<b>Benzo[g,h,i]perylene</b>	<b>0.032</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	04/17/14 07:22	04/22/14 05:23	1
Phenol-d5	58		31 - 110	04/17/14 07:22	04/22/14 05:23	1
Nitrobenzene-d5	62		25 - 115	04/17/14 07:22	04/22/14 05:23	1
2-Fluorobiphenyl	74		25 - 119	04/17/14 07:22	04/22/14 05:23	1
2,4,6-Tribromophenol	73		35 - 137	04/17/14 07:22	04/22/14 05:23	1
Terphenyl-d14	113		36 - 134	04/17/14 07:22	04/22/14 05:23	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Arsenic</b>	<b>7.4</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Barium</b>	<b>38</b>		0.59	0.064	mg/Kg	☼	04/18/14 08:50	04/22/14 04:08	1
<b>Beryllium</b>	<b>0.54</b>		0.24	0.048	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Boron</b>	<b>14</b>		3.0	0.59	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Cadmium</b>	<b>0.84</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Calcium</b>	<b>48000</b>		12	3.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Chromium</b>	<b>16</b>		0.59	0.069	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Cobalt</b>	<b>11</b>		0.30	0.059	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Copper</b>	<b>29</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Iron</b>	<b>20000</b>		12	4.9	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Lead</b>	<b>12</b>		0.30	0.088	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Magnesium</b>	<b>24000</b>		5.9	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Manganese</b>	<b>340</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Nickel</b>	<b>28</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Potassium</b>	<b>3100</b>		30	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Selenium</b>	<b>0.47</b>	<b>J</b>	0.59	0.21	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Silver</b>	<b>0.042</b>	<b>J</b>	0.30	0.021	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Sodium</b>	<b>370</b>		59	8.0	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Thallium</b>	<b>0.81</b>		0.59	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Vanadium</b>	<b>18</b>		0.30	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1
<b>Zinc</b>	<b>43</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:32	1
<b>Boron</b>	<b>0.99</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:32	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

**Client Sample ID: 2615-238-B02-3**

**Lab Sample ID: 500-75227-12**

Date Collected: 04/16/14 13:05

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:32	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:32	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:32	1
<b>Iron</b>	<b>0.52</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:32	1
<b>Manganese</b>	<b>0.042</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:32	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:32	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:32	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:32	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:32	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		04/21/14 07:15	04/22/14 11:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:30	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		04/21/14 16:00	04/22/14 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.019	0.0075	mg/Kg	☆	04/22/14 13:25	04/23/14 13:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.30</b>		0.200	0.200	SU			04/22/14 16:00	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-2

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.

### 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.
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.
B	Compound was found in the blank and sample.
^	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
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

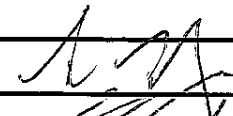
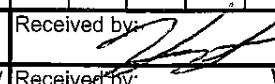
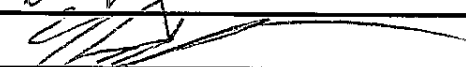
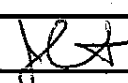
<b>Client Contact</b>	<b>Laboratory</b>	Project Name: <u>I90/94 Chicago Cook</u>	COC No.: <u>1</u> of <u>1</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project No.: <u>IDOT 2013-061</u> TAT: <del>15 BD</del> <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CF</u>	Lab Job No.: <u>500-75227</u> Sample Temp:

**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				

**Matrix Key:**  
W: Water  
S: Soil  
SL: Sludge  
S: Sediment  
L: Leachate  
DW: Drinking Water  
OL: Oil  
O: Other

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
6	2615-238-B01-1	4/16	12:10	S	X	X					X	X	X	X						0-8'
7	2615-238-B01-3 DUP		<del>12:15</del>																	<del>8-16'</del> 16-24'
8	2615-238-B01-2		12:15																	<del>8-16'</del> 8-16'
9	2615-238-B01-3		12:20																	16-24'
10	2615-238-B02-1		12:55																	0-8'
11	2615-238-B02-2		1:00																	8-16'
12	2615-238-B02-3	✓	1:05	S	X	X					X	X	X	X						16-24'

Relinquished by: 	Date/Time: <u>4/16/14 1530</u>	Received by: 	Date/Time: <u>4/16/14 1530</u>
Relinquished by: 	Date/Time: <u>4/16/14 1800</u>	Received by: 	Date/Time: <u>4/17/14 0630</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:



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## 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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

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

700-750 S. Des Plaines Street

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87258 Longitude: -87.64452  
(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: 0316286363 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: IL

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: I-90/94 at I-290 (Circle Interchange)

Latitude: 41.87258 Longitude: -87.64452

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 2615-243-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO SITE No. 2615-243. SEE FIGURE 4 AND TABLE 3h 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75227-3

**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))***

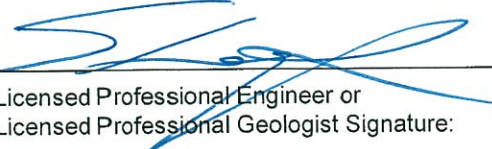
Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman  
Printed Name:

  
\_\_\_\_\_  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

6/2/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-243**

**Vacant Buildings**

<b>Sample ID</b>	2615-243-B01-1	2615-243-B01-2	2615-243-B01-3	2615-243-B02-1	2615-243-B02-2	<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only
<b>Sample Depth (ft)</b>	0-8	8-16	16-24	0-8	8-16						
<b>Sample Date</b>	4/16/2014	4/16/2014	4/16/2014	4/16/2014	4/16/2014						
<b>PID</b>	0	0	0	0	0						
<b>Sample pH</b>	8.29	8.32	8.75	8.44	8.47						
<b>Matrix</b>	Soil	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>											

<b>Sample ID</b>	2615-243-B02-3	2615-243-B02-3 DUP	2615-243-B03-1	2615-243-B03-2	2615-243-B03-3	<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only
<b>Sample Depth (ft)</b>	16-24	16-24	0-8	8-16	16-24						
<b>Sample Date</b>	4/16/2014	4/16/2014	4/16/2014	4/16/2014	4/16/2014						
<b>PID</b>	0	0	0	0	0						
<b>Sample pH</b>	8.48	8.65	8.08	8.29	8.31						
<b>Matrix</b>	Soil	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>											

# 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: 500-75227-3  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
4/30/2014 2:08:07 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-1**

**Lab Sample ID: 500-75227-13**

Date Collected: 04/16/14 10:00

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0047		0.0044	0.0019	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Bromomethane	<0.0044 *		0.0044	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Carbon tetrachloride	<0.0044		0.0044	0.00079	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Chloroethane	<0.0044 *		0.0044	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	04/17/14 07:20	04/21/14 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 122	04/17/14 07:20	04/21/14 13:23	1
Dibromofluoromethane	111		75 - 120	04/17/14 07:20	04/21/14 13:23	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/17/14 07:20	04/21/14 13:23	1
Toluene-d8 (Surr)	103		75 - 122	04/17/14 07:20	04/21/14 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-1**

**Lab Sample ID: 500-75227-13**

**Date Collected: 04/16/14 10:00**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 83.5**

**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	☼	04/17/14 07:22	04/22/14 05:40	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
<b>2-Methylnaphthalene</b>	<b>0.029</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
<b>2-Nitroaniline</b>	<b>0.055</b>	<b>J</b>	0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
<b>Fluorene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
<b>Phenanthrene</b>	<b>0.088</b>		0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-1**

**Lab Sample ID: 500-75227-13**

Date Collected: 04/16/14 10:00

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.032</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
<b>Benzo[g,h,i]perylene</b>	<b>0.026</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		25 - 110	04/17/14 07:22	04/22/14 05:40	1
Phenol-d5	55		31 - 110	04/17/14 07:22	04/22/14 05:40	1
Nitrobenzene-d5	58		25 - 115	04/17/14 07:22	04/22/14 05:40	1
2-Fluorobiphenyl	74		25 - 119	04/17/14 07:22	04/22/14 05:40	1
2,4,6-Tribromophenol	74		35 - 137	04/17/14 07:22	04/22/14 05:40	1
Terphenyl-d14	210	X	36 - 134	04/17/14 07:22	04/22/14 05:40	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.46</b>	<b>J</b>	1.1	0.44	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Arsenic</b>	<b>6.9</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Barium</b>	<b>30</b>		0.55	0.058	mg/Kg	☼	04/18/14 08:50	04/22/14 04:21	1
<b>Beryllium</b>	<b>0.50</b>		0.22	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Boron</b>	<b>12</b>		2.7	0.55	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Cadmium</b>	<b>0.72</b>		0.11	0.014	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Calcium</b>	<b>43000</b>		11	3.0	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Chromium</b>	<b>15</b>		0.55	0.063	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Cobalt</b>	<b>11</b>		0.27	0.055	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Copper</b>	<b>30</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Iron</b>	<b>17000</b>		11	4.5	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Lead</b>	<b>13</b>		0.27	0.081	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Magnesium</b>	<b>23000</b>		5.5	1.1	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Manganese</b>	<b>330</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Nickel</b>	<b>27</b>		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Potassium</b>	<b>3000</b>		27	1.6	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Selenium</b>	<b>0.52</b>	<b>J</b>	0.55	0.19	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Silver</b>	<b>0.055</b>	<b>J</b>	0.27	0.020	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Sodium</b>	<b>550</b>		55	7.3	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Thallium</b>	<b>0.65</b>		0.55	0.23	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Vanadium</b>	<b>17</b>		0.27	0.040	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1
<b>Zinc</b>	<b>37</b>		1.1	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:36	1
<b>Boron</b>	<b>0.83</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:36	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-1**

**Lab Sample ID: 500-75227-13**

Date Collected: 04/16/14 10:00

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:36	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:36	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:36	1
<b>Iron</b>	<b>0.60</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:36	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:36	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:36	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:36	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:36	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:36	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		04/21/14 07:15	04/22/14 11:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:33	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		04/21/14 16:00	04/22/14 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.025</b>		0.018	0.0070	mg/Kg	☆	04/22/14 13:25	04/23/14 13:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.29</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-2**

**Lab Sample ID: 500-75227-14**

Date Collected: 04/16/14 10:05

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 83.8

**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	☼	04/17/14 07:20	04/19/14 05:12	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Bromomethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Chloroethane	<0.0043	*	0.0043	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	04/17/14 07:20	04/19/14 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 122	04/17/14 07:20	04/19/14 05:12	1
Dibromofluoromethane	108		75 - 120	04/17/14 07:20	04/19/14 05:12	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	04/17/14 07:20	04/19/14 05:12	1
Toluene-d8 (Surr)	100		75 - 122	04/17/14 07:20	04/19/14 05:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-2**

**Lab Sample ID: 500-75227-14**

Date Collected: 04/16/14 10:05

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 83.8

**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	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
<b>Naphthalene</b>	<b>0.0076</b>	<b>J</b>	0.038	0.0058	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
<b>2-Methylnaphthalene</b>	<b>0.035</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
<b>Fluorene</b>	<b>0.023</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
<b>Phenanthrene</b>	<b>0.10</b>		0.038	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
<b>Pyrene</b>	<b>0.035</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-2**

**Lab Sample ID: 500-75227-14**

Date Collected: 04/16/14 10:05

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.028</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
<b>Benzo[g,h,i]perylene</b>	<b>0.023</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	04/17/14 07:22	04/22/14 05:58	1
Phenol-d5	53		31 - 110	04/17/14 07:22	04/22/14 05:58	1
Nitrobenzene-d5	54		25 - 115	04/17/14 07:22	04/22/14 05:58	1
2-Fluorobiphenyl	72		25 - 119	04/17/14 07:22	04/22/14 05:58	1
2,4,6-Tribromophenol	52		35 - 137	04/17/14 07:22	04/22/14 05:58	1
Terphenyl-d14	229	X	36 - 134	04/17/14 07:22	04/22/14 05:58	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	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Arsenic</b>	<b>8.6</b>		0.56	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Barium</b>	<b>25</b>		0.56	0.060	mg/Kg	☼	04/18/14 08:50	04/22/14 04:26	1
<b>Beryllium</b>	<b>0.41</b>		0.23	0.045	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Boron</b>	<b>13</b>		2.8	0.56	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Cadmium</b>	<b>0.92</b>		0.11	0.014	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Calcium</b>	<b>75000</b>		110	30	mg/Kg	☼	04/18/14 08:50	04/22/14 04:31	10
<b>Chromium</b>	<b>12</b>		0.56	0.065	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Cobalt</b>	<b>9.5</b>		0.28	0.056	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Copper</b>	<b>33</b>		0.56	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Iron</b>	<b>17000</b>		11	4.6	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Lead</b>	<b>12</b>		0.28	0.084	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Magnesium</b>	<b>39000</b>		5.6	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Manganese</b>	<b>380</b>		0.56	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Nickel</b>	<b>25</b>		0.56	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Potassium</b>	<b>2600</b>		28	1.7	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Selenium</b>	<b>0.39</b>	<b>J</b>	0.56	0.20	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Silver</b>	<b>0.065</b>	<b>J</b>	0.28	0.020	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Sodium</b>	<b>320</b>		56	7.5	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Thallium</b>	<b>0.63</b>		0.56	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Vanadium</b>	<b>14</b>		0.28	0.042	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1
<b>Zinc</b>	<b>43</b>		1.1	0.23	mg/Kg	☼	04/18/14 08:50	04/18/14 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:40	1
<b>Boron</b>	<b>1.3</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:40	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-2**

**Lab Sample ID: 500-75227-14**

Date Collected: 04/16/14 10:05

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:40	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:40	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:40	1
<b>Iron</b>	<b>0.25</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:40	1
<b>Manganese</b>	<b>0.027</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:40	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:40	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:40	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:40	1
<b>Zinc</b>	<b>0.17</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:40	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		04/21/14 07:15	04/22/14 11:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:35	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		04/21/14 16:00	04/22/14 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.030</b>		0.018	0.0071	mg/Kg	☆	04/22/14 13:25	04/23/14 13:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.32</b>		0.200	0.200	SU			04/22/14 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-3**

**Lab Sample ID: 500-75227-15**

Date Collected: 04/16/14 10:10

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0080		0.0047	0.0020	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Bromomethane	<0.0047 *		0.0047	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Chloroethane	<0.0047 *		0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	04/17/14 07:20	04/19/14 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 122	04/17/14 07:20	04/19/14 05:35	1
Dibromofluoromethane	116		75 - 120	04/17/14 07:20	04/19/14 05:35	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	04/17/14 07:20	04/19/14 05:35	1
Toluene-d8 (Surr)	100		75 - 122	04/17/14 07:20	04/19/14 05:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-3**

**Lab Sample ID: 500-75227-15**

**Date Collected: 04/16/14 10:10**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 79.5**

**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	☼	04/17/14 07:22	04/22/14 06:15	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
<b>2-Methylnaphthalene</b>	<b>0.035</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
<b>Acenaphthylene</b>	<b>0.0080</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
<b>Fluorene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
<b>Phenanthrene</b>	<b>0.090</b>		0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
<b>Pyrene</b>	<b>0.028</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-3**

**Lab Sample ID: 500-75227-15**

Date Collected: 04/16/14 10:10

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.023</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
<b>Benzo[g,h,i]perylene</b>	<b>0.025</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	04/17/14 07:22	04/22/14 06:15	1
Phenol-d5	48		31 - 110	04/17/14 07:22	04/22/14 06:15	1
Nitrobenzene-d5	49		25 - 115	04/17/14 07:22	04/22/14 06:15	1
2-Fluorobiphenyl	65		25 - 119	04/17/14 07:22	04/22/14 06:15	1
2,4,6-Tribromophenol	59		35 - 137	04/17/14 07:22	04/22/14 06:15	1
Terphenyl-d14	162	X	36 - 134	04/17/14 07:22	04/22/14 06:15	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Arsenic</b>	<b>7.8</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Barium</b>	<b>39</b>		0.62	0.066	mg/Kg	☼	04/18/14 08:50	04/22/14 04:35	1
<b>Beryllium</b>	<b>0.52</b>		0.25	0.050	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Boron</b>	<b>14</b>		3.1	0.62	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Cadmium</b>	<b>1.2</b>		0.12	0.016	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Calcium</b>	<b>48000</b>		12	3.4	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Chromium</b>	<b>16</b>		0.62	0.072	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Cobalt</b>	<b>10</b>		0.31	0.062	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Copper</b>	<b>27</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Iron</b>	<b>18000</b>		12	5.1	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Lead</b>	<b>11</b>		0.31	0.092	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Magnesium</b>	<b>24000</b>		6.2	1.3	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Manganese</b>	<b>350</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Nickel</b>	<b>27</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Potassium</b>	<b>3000</b>		31	1.9	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Selenium</b>	<b>0.59</b>	<b>J</b>	0.62	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Silver</b>	<b>0.040</b>	<b>J</b>	0.31	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Sodium</b>	<b>270</b>		62	8.3	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Thallium</b>	<b>0.63</b>		0.62	0.26	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Vanadium</b>	<b>18</b>		0.31	0.046	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1
<b>Zinc</b>	<b>63</b>		1.2	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:44	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B01-3**

**Lab Sample ID: 500-75227-15**

Date Collected: 04/16/14 10:10

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:44	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:44	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:44	1
<b>Iron</b>	<b>0.50</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:44	1
<b>Manganese</b>	<b>0.028</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:44	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:44	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:44	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:44	1
<b>Zinc</b>	<b>0.16</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:44	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		04/21/14 07:15	04/22/14 11:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:38	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		04/21/14 16:00	04/22/14 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.019	0.0076	mg/Kg	☆	04/22/14 13:25	04/23/14 13:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.75</b>		0.200	0.200	SU			04/23/14 14:30	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-1**

**Lab Sample ID: 500-75227-16**

**Date Collected: 04/16/14 10:40**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 82.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Bromomethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Carbon disulfide	<0.0047		0.0047	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Chloroform	<0.0047		0.0047	0.00053	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00083	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	04/17/14 07:20	04/21/14 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123	X	70 - 122	04/17/14 07:20	04/21/14 13:46	1
Dibromofluoromethane	112		75 - 120	04/17/14 07:20	04/21/14 13:46	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	04/17/14 07:20	04/21/14 13:46	1
Toluene-d8 (Surr)	104		75 - 122	04/17/14 07:20	04/21/14 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-1**

**Lab Sample ID: 500-75227-16**

Date Collected: 04/16/14 10:40

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.1

**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	☼	04/17/14 07:22	04/22/14 06:32	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
<b>2-Methylnaphthalene</b>	<b>0.027</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
<b>Fluorene</b>	<b>0.024</b>	<b>J</b>	0.040	0.0057	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
<b>Phenanthrene</b>	<b>0.12</b>		0.040	0.0056	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
<b>Pyrene</b>	<b>0.030</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-1**

**Lab Sample ID: 500-75227-16**

Date Collected: 04/16/14 10:40

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.034</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
<b>Benzo[g,h,i]perylene</b>	<b>0.019</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	04/17/14 07:22	04/22/14 06:32	1
Phenol-d5	52		31 - 110	04/17/14 07:22	04/22/14 06:32	1
Nitrobenzene-d5	50		25 - 115	04/17/14 07:22	04/22/14 06:32	1
2-Fluorobiphenyl	67		25 - 119	04/17/14 07:22	04/22/14 06:32	1
2,4,6-Tribromophenol	72		35 - 137	04/17/14 07:22	04/22/14 06:32	1
Terphenyl-d14	137	X	36 - 134	04/17/14 07:22	04/22/14 06:32	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Arsenic</b>	<b>6.6</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Barium</b>	<b>30</b>		0.59	0.063	mg/Kg	☼	04/18/14 08:50	04/22/14 04:40	1
<b>Beryllium</b>	<b>0.48</b>		0.23	0.047	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Boron</b>	<b>10</b>		2.9	0.59	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Cadmium</b>	<b>0.67</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Calcium</b>	<b>41000</b>		12	3.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Chromium</b>	<b>15</b>		0.59	0.068	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Cobalt</b>	<b>9.3</b>		0.29	0.059	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Copper</b>	<b>32</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Iron</b>	<b>17000</b>		12	4.8	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Lead</b>	<b>12</b>		0.29	0.087	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Magnesium</b>	<b>22000</b>		5.9	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Manganese</b>	<b>300</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Nickel</b>	<b>27</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Potassium</b>	<b>2500</b>		29	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Selenium</b>	<b>0.65</b>		0.59	0.21	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Silver</b>	<b>0.059</b>	<b>J</b>	0.29	0.021	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Sodium</b>	<b>1100</b>		59	7.8	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Thallium</b>	<b>0.64</b>		0.59	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Vanadium</b>	<b>16</b>		0.29	0.043	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1
<b>Zinc</b>	<b>36</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 00:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 00:56	1
<b>Boron</b>	<b>1.5</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 00:56	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-1**

**Lab Sample ID: 500-75227-16**

Date Collected: 04/16/14 10:40

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 00:56	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:56	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:56	1
<b>Iron</b>	<b>0.44</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 00:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 00:56	1
<b>Manganese</b>	<b>0.036</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:56	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:56	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 00:56	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 00:56	1
<b>Zinc</b>	<b>0.21</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 00:56	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		04/21/14 07:15	04/22/14 11:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:46	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		04/21/14 16:00	04/22/14 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.018</b>	<b>J</b>	0.020	0.0079	mg/Kg	☆	04/22/14 13:25	04/23/14 13:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.44</b>		0.200	0.200	SU			04/23/14 14:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-3 Dup**

**Lab Sample ID: 500-75227-17**

**Date Collected: 04/16/14 10:50**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Bromomethane	<0.0048	*	0.0048	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	04/17/14 07:20	04/19/14 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 122	04/17/14 07:20	04/19/14 06:21	1
Dibromofluoromethane	114		75 - 120	04/17/14 07:20	04/19/14 06:21	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	04/17/14 07:20	04/19/14 06:21	1
Toluene-d8 (Surr)	98		75 - 122	04/17/14 07:20	04/19/14 06:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-3 Dup**

**Lab Sample ID: 500-75227-17**

**Date Collected: 04/16/14 10:50**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 80.7**

**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	☼	04/17/14 07:22	04/22/14 06:50	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
<b>Naphthalene</b>	<b>0.0082</b>	<b>J</b>	0.039	0.0060	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
<b>2-Methylnaphthalene</b>	<b>0.038</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
<b>Fluorene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
<b>Phenanthrene</b>	<b>0.084</b>		0.039	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
<b>Pyrene</b>	<b>0.037</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-3 Dup**

**Lab Sample ID: 500-75227-17**

Date Collected: 04/16/14 10:50

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.027</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
<b>Benzo[g,h,i]perylene</b>	<b>0.034</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 06:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	59		25 - 110				04/17/14 07:22	04/22/14 06:50	1
Phenol-d5	49		31 - 110				04/17/14 07:22	04/22/14 06:50	1
Nitrobenzene-d5	44		25 - 115				04/17/14 07:22	04/22/14 06:50	1
2-Fluorobiphenyl	71		25 - 119				04/17/14 07:22	04/22/14 06:50	1
2,4,6-Tribromophenol	64		35 - 137				04/17/14 07:22	04/22/14 06:50	1
Terphenyl-d14	225	X	36 - 134				04/17/14 07:22	04/22/14 06:50	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Arsenic</b>	<b>6.9</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Barium</b>	<b>39</b>		0.59	0.064	mg/Kg	☼	04/18/14 08:50	04/22/14 04:45	1
<b>Beryllium</b>	<b>0.53</b>		0.24	0.048	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Boron</b>	<b>14</b>		3.0	0.59	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Cadmium</b>	<b>0.81</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Calcium</b>	<b>48000</b>		12	3.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Chromium</b>	<b>16</b>		0.59	0.069	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Cobalt</b>	<b>10</b>		0.30	0.059	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Copper</b>	<b>26</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Iron</b>	<b>19000</b>		12	4.9	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Lead</b>	<b>11</b>		0.30	0.089	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Magnesium</b>	<b>24000</b>		5.9	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Manganese</b>	<b>340</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Nickel</b>	<b>27</b>		0.59	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Potassium</b>	<b>3200</b>		30	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Selenium</b>	<b>0.46</b>	<b>J</b>	0.59	0.21	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Silver</b>	<b>0.044</b>	<b>J</b>	0.30	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Sodium</b>	<b>260</b>		59	8.0	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Thallium</b>	<b>0.55</b>	<b>J</b>	0.59	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Vanadium</b>	<b>18</b>		0.30	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1
<b>Zinc</b>	<b>42</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 01:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 01:00	1
<b>Boron</b>	<b>1.3</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 01:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-3 Dup**

**Lab Sample ID: 500-75227-17**

Date Collected: 04/16/14 10:50

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 01:00	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:00	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:00	1
Iron	<0.20		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 01:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 01:00	1
<b>Manganese</b>	<b>0.025</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:00	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:00	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 01:00	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:00	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 01:00	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		04/21/14 07:15	04/22/14 11:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:49	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		04/21/14 16:00	04/22/14 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.019	0.0075	mg/Kg	☆	04/22/14 13:25	04/23/14 13:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.65</b>		0.200	0.200	SU			04/23/14 14:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-2**

**Lab Sample ID: 500-75227-18**

**Date Collected: 04/16/14 10:45**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 82.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0070		0.0044	0.0019	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Bromomethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Chloroethane	<0.0044	*	0.0044	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	04/17/14 07:20	04/21/14 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 122	04/17/14 07:20	04/21/14 14:09	1
Dibromofluoromethane	119		75 - 120	04/17/14 07:20	04/21/14 14:09	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	04/17/14 07:20	04/21/14 14:09	1
Toluene-d8 (Surr)	103		75 - 122	04/17/14 07:20	04/21/14 14:09	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	☼	04/17/14 07:22	04/22/14 07:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-2**

**Lab Sample ID: 500-75227-18**

Date Collected: 04/16/14 10:45

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.8

**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	☼	04/17/14 07:22	04/22/14 07:07	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
<b>2-Methylnaphthalene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
<b>Fluorene</b>	<b>0.023</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
<b>Phenanthrene</b>	<b>0.11</b>		0.038	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
<b>Pyrene</b>	<b>0.032</b>	<b>J</b>	0.038	0.0077	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-2**

**Lab Sample ID: 500-75227-18**

Date Collected: 04/16/14 10:45

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.021</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
<b>Benzo[g,h,i]perylene</b>	<b>0.023</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 07:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	67		25 - 110				04/17/14 07:22	04/22/14 07:07	1
Phenol-d5	53		31 - 110				04/17/14 07:22	04/22/14 07:07	1
Nitrobenzene-d5	51		25 - 115				04/17/14 07:22	04/22/14 07:07	1
2-Fluorobiphenyl	77		25 - 119				04/17/14 07:22	04/22/14 07:07	1
2,4,6-Tribromophenol	72		35 - 137				04/17/14 07:22	04/22/14 07:07	1
Terphenyl-d14	235	X	36 - 134				04/17/14 07:22	04/22/14 07:07	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Arsenic</b>	<b>8.5</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Barium</b>	<b>22</b>		0.60	0.064	mg/Kg	☼	04/18/14 08:50	04/22/14 04:50	1
<b>Beryllium</b>	<b>0.49</b>		0.24	0.048	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Boron</b>	<b>12</b>		3.0	0.60	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Cadmium</b>	<b>0.84</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Calcium</b>	<b>44000</b>		12	3.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Chromium</b>	<b>15</b>		0.60	0.069	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Cobalt</b>	<b>12</b>		0.30	0.060	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Copper</b>	<b>36</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Iron</b>	<b>20000</b>		12	4.9	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Lead</b>	<b>15</b>		0.30	0.089	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Magnesium</b>	<b>24000</b>		6.0	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Manganese</b>	<b>400</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Nickel</b>	<b>31</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Potassium</b>	<b>2700</b>		30	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Selenium</b>	<b>0.68</b>		0.60	0.21	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Silver</b>	<b>0.070</b>	<b>J</b>	0.30	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Sodium</b>	<b>200</b>		60	8.0	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Thallium</b>	<b>0.79</b>		0.60	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Vanadium</b>	<b>16</b>		0.30	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1
<b>Zinc</b>	<b>46</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 01:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 01:04	1
<b>Boron</b>	<b>1.7</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 01:04	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-2**

**Lab Sample ID: 500-75227-18**

Date Collected: 04/16/14 10:45

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 01:04	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:04	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:04	1
<b>Iron</b>	<b>0.40</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 01:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 01:04	1
<b>Manganese</b>	<b>0.048</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:04	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:04	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 01:04	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:04	1
<b>Zinc</b>	<b>0.26</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 01:04	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		04/21/14 07:15	04/22/14 11:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00010</b>	<b>J</b>	0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.028</b>		0.019	0.0076	mg/Kg	☆	04/22/14 13:25	04/23/14 13:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.47</b>		0.200	0.200	SU			04/23/14 14:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

Client Sample ID: 2615-243-B02-3

Lab Sample ID: 500-75227-19

Date Collected: 04/16/14 10:50

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0062		0.0047	0.0020	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Bromomethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	04/17/14 07:20	04/19/14 07:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 122	04/17/14 07:20	04/19/14 07:06	1
Dibromofluoromethane	113		75 - 120	04/17/14 07:20	04/19/14 07:06	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	04/17/14 07:20	04/19/14 07:06	1
Toluene-d8 (Surr)	98		75 - 122	04/17/14 07:20	04/19/14 07:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-3**

**Lab Sample ID: 500-75227-19**

Date Collected: 04/16/14 10:50

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 80.8

**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	0.046	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
<b>Naphthalene</b>	<b>0.0086</b>	<b>J</b>	0.039	0.0060	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
<b>2-Methylnaphthalene</b>	<b>0.052</b>		0.039	0.0071	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
<b>Acenaphthylene</b>	<b>0.0086</b>	<b>J</b>	0.039	0.0051	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
<b>Fluorene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0055	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
<b>Phenanthrene</b>	<b>0.10</b>		0.039	0.0054	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
<b>Pyrene</b>	<b>0.048</b>		0.039	0.0077	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	*	04/17/14 07:22	04/22/14 07:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

Client Sample ID: 2615-243-B02-3

Lab Sample ID: 500-75227-19

Date Collected: 04/16/14 10:50

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.030</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
<b>Benzo[g,h,i]perylene</b>	<b>0.032</b>	<b>J</b>	0.039	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 07:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110				04/17/14 07:22	04/22/14 07:24	1
Phenol-d5	49		31 - 110				04/17/14 07:22	04/22/14 07:24	1
Nitrobenzene-d5	52		25 - 115				04/17/14 07:22	04/22/14 07:24	1
2-Fluorobiphenyl	73		25 - 119				04/17/14 07:22	04/22/14 07:24	1
2,4,6-Tribromophenol	67		35 - 137				04/17/14 07:22	04/22/14 07:24	1
Terphenyl-d14	240	X	36 - 134				04/17/14 07:22	04/22/14 07:24	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	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Arsenic</b>	<b>7.1</b>		0.58	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Barium</b>	<b>38</b>		0.58	0.062	mg/Kg	☼	04/18/14 08:50	04/22/14 04:55	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.046	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Boron</b>	<b>13</b>		2.9	0.58	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Cadmium</b>	<b>0.77</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Calcium</b>	<b>45000</b>		12	3.1	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Chromium</b>	<b>15</b>		0.58	0.067	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Cobalt</b>	<b>10</b>		0.29	0.058	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Copper</b>	<b>26</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Iron</b>	<b>18000</b>		12	4.7	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Lead</b>	<b>11</b>		0.29	0.086	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Magnesium</b>	<b>22000</b>		5.8	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Manganese</b>	<b>330</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Nickel</b>	<b>26</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Potassium</b>	<b>3000</b>		29	1.7	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Selenium</b>	<b>0.59</b>		0.58	0.20	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Silver</b>	<b>0.048</b>	<b>J</b>	0.29	0.021	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Sodium</b>	<b>240</b>		58	7.7	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Thallium</b>	<b>0.57</b>	<b>J</b>	0.58	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Vanadium</b>	<b>17</b>		0.29	0.043	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1
<b>Zinc</b>	<b>38</b>		1.2	0.23	mg/Kg	☼	04/18/14 08:50	04/18/14 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 01:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 01:08	1
<b>Boron</b>	<b>1.4</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 01:08	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B02-3**

**Lab Sample ID: 500-75227-19**

Date Collected: 04/16/14 10:50

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 01:08	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:08	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:08	1
<b>Iron</b>	<b>0.30</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 01:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 01:08	1
<b>Manganese</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:08	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:08	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 01:08	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:08	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 01:08	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		04/21/14 07:15	04/22/14 11:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:54	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		04/21/14 16:00	04/22/14 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.018	0.0073	mg/Kg	☆	04/22/14 13:25	04/23/14 13:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.48</b>		0.200	0.200	SU			04/23/14 14:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-1**

**Lab Sample ID: 500-75227-20**

Date Collected: 04/16/14 11:10

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0050	0.0022	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Bromomethane	<0.0050	*	0.0050	0.0015	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	04/17/14 07:20	04/19/14 07:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 122	04/17/14 07:20	04/19/14 07:29	1
Dibromofluoromethane	111		75 - 120	04/17/14 07:20	04/19/14 07:29	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	04/17/14 07:20	04/19/14 07:29	1
Toluene-d8 (Surr)	104		75 - 122	04/17/14 07:20	04/19/14 07:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-1**

**Lab Sample ID: 500-75227-20**

Date Collected: 04/16/14 11:10

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
<b>Phenanthrene</b>	<b>0.040</b>	<b>J</b>	0.041	0.0057	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
<b>Fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.041	0.0076	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
<b>Pyrene</b>	<b>0.061</b>		0.041	0.0081	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-1**

**Lab Sample ID: 500-75227-20**

Date Collected: 04/16/14 11:10

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.033</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
<b>Benzo[g,h,i]perylene</b>	<b>0.022</b>	<b>J</b>	0.041	0.013	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	04/17/14 07:22	04/22/14 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	04/17/14 07:22	04/22/14 07:42	1
Phenol-d5	63		31 - 110	04/17/14 07:22	04/22/14 07:42	1
Nitrobenzene-d5	59		25 - 115	04/17/14 07:22	04/22/14 07:42	1
2-Fluorobiphenyl	71		25 - 119	04/17/14 07:22	04/22/14 07:42	1
2,4,6-Tribromophenol	72		35 - 137	04/17/14 07:22	04/22/14 07:42	1
Terphenyl-d14	234	X	36 - 134	04/17/14 07:22	04/22/14 07:42	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Arsenic</b>	<b>4.7</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Barium</b>	<b>47</b>		0.62	0.066	mg/Kg	☼	04/18/14 08:50	04/22/14 05:00	1
<b>Beryllium</b>	<b>0.57</b>		0.25	0.049	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Boron</b>	<b>10</b>		3.1	0.62	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Cadmium</b>	<b>0.74</b>		0.12	0.016	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Calcium</b>	<b>29000</b>		12	3.3	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Chromium</b>	<b>17</b>		0.62	0.072	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Cobalt</b>	<b>11</b>		0.31	0.062	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Copper</b>	<b>30</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Iron</b>	<b>20000</b>		12	5.1	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Lead</b>	<b>12</b>		0.31	0.092	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Magnesium</b>	<b>17000</b>		6.2	1.3	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Manganese</b>	<b>290</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Nickel</b>	<b>32</b>		0.62	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Potassium</b>	<b>2800</b>		31	1.9	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Selenium</b>	<b>0.69</b>		0.62	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Silver</b>	<b>0.048</b>	<b>J</b>	0.31	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Sodium</b>	<b>900</b>		62	8.3	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Thallium</b>	<b>0.43</b>	<b>J</b>	0.62	0.26	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Vanadium</b>	<b>16</b>		0.31	0.046	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1
<b>Zinc</b>	<b>41</b>		1.2	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		04/21/14 07:15	04/22/14 01:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 07:15	04/22/14 01:12	1
<b>Boron</b>	<b>1.4</b>		0.10	0.050	mg/L		04/21/14 07:15	04/22/14 01:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-1**

**Lab Sample ID: 500-75227-20**

Date Collected: 04/16/14 11:10

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 07:15	04/22/14 01:12	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:12	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:12	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		04/21/14 07:15	04/22/14 01:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 07:15	04/22/14 01:12	1
<b>Manganese</b>	<b>0.036</b>		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:12	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:12	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 07:15	04/22/14 01:12	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 07:15	04/22/14 01:12	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		04/21/14 07:15	04/22/14 01:12	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		04/21/14 07:15	04/22/14 11:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 07:15	04/22/14 11:57	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		04/21/14 16:00	04/22/14 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.034</b>		0.021	0.0081	mg/Kg	☆	04/22/14 13:25	04/23/14 13:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.08</b>		0.200	0.200	SU			04/23/14 14:38	1

## Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

Client Sample ID: 2615-243-B03-2

Lab Sample ID: 500-75227-21

Date Collected: 04/16/14 11:15

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0091		0.0045	0.0020	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Bromomethane	<0.0045 *		0.0045	0.0014	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Chloroethane	<0.0045 *		0.0045	0.0012	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Chloromethane	<0.0045		0.0045	0.00096	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
1,1-Dichloroethene	<0.0045		0.0045	0.00074	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Tetrachloroethene	<0.0045		0.0045	0.00070	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00082	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Vinyl acetate	<0.0045		0.0045	0.00072	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Vinyl chloride	<0.0045		0.0045	0.00096	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	*	04/17/14 07:20	04/19/14 07:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 122	04/17/14 07:20	04/19/14 07:52	1
Dibromofluoromethane	112		75 - 120	04/17/14 07:20	04/19/14 07:52	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	04/17/14 07:20	04/19/14 07:52	1
Toluene-d8 (Surr)	105		75 - 122	04/17/14 07:20	04/19/14 07:52	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	*	04/21/14 19:11	04/23/14 17:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	*	04/21/14 19:11	04/23/14 17:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	*	04/21/14 19:11	04/23/14 17:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	*	04/21/14 19:11	04/23/14 17:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-2**

**Lab Sample ID: 500-75227-21**

Date Collected: 04/16/14 11:15

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.6

**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	☼	04/21/14 19:11	04/23/14 17:48	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
<b>Fluorene</b>	<b>0.021</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
<b>Phenanthrene</b>	<b>0.051</b>		0.038	0.0054	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
<b>Fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0072	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0077	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-2**

**Lab Sample ID: 500-75227-21**

Date Collected: 04/16/14 11:15

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.019</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
<b>Benzo[g,h,i]perylene</b>	<b>0.017</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/21/14 19:11	04/23/14 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	04/21/14 19:11	04/23/14 17:48	1
Phenol-d5	53		31 - 110	04/21/14 19:11	04/23/14 17:48	1
Nitrobenzene-d5	50		25 - 115	04/21/14 19:11	04/23/14 17:48	1
2-Fluorobiphenyl	54		25 - 119	04/21/14 19:11	04/23/14 17:48	1
2,4,6-Tribromophenol	56		35 - 137	04/21/14 19:11	04/23/14 17:48	1
Terphenyl-d14	160	X	36 - 134	04/21/14 19:11	04/23/14 17:48	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.45</b>	<b>J</b>	1.1	0.45	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Arsenic</b>	<b>7.8</b>		0.56	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Barium</b>	<b>30</b>		0.56	0.060	mg/Kg	☼	04/18/14 08:50	04/22/14 05:05	1
<b>Beryllium</b>	<b>0.47</b>		0.22	0.045	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Boron</b>	<b>12</b>		2.8	0.56	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Cadmium</b>	<b>0.81</b>		0.11	0.014	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Calcium</b>	<b>47000</b>		11	3.0	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Chromium</b>	<b>14</b>		0.56	0.065	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Cobalt</b>	<b>11</b>		0.28	0.056	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Copper</b>	<b>31</b>		0.56	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Iron</b>	<b>18000</b>		11	4.6	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Lead</b>	<b>12</b>		0.28	0.083	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Magnesium</b>	<b>25000</b>		5.6	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Manganese</b>	<b>400</b>		0.56	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Nickel</b>	<b>28</b>		0.56	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Potassium</b>	<b>2700</b>		28	1.7	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Selenium</b>	<b>0.61</b>		0.56	0.20	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Silver</b>	<b>0.058</b>	<b>J</b>	0.28	0.020	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Sodium</b>	<b>240</b>		56	7.5	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Thallium</b>	<b>0.61</b>		0.56	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Vanadium</b>	<b>15</b>		0.28	0.041	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1
<b>Zinc</b>	<b>37</b>		1.1	0.23	mg/Kg	☼	04/18/14 08:50	04/18/14 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.067</b>	<b>J</b>	0.50	0.050	mg/L		04/18/14 09:30	04/18/14 17:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 17:50	1
<b>Boron</b>	<b>0.83</b>		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 17:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-2**

**Lab Sample ID: 500-75227-21**

Date Collected: 04/16/14 11:15

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 17:50	1
Chromium	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:50	1
Cobalt	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:50	1
<b>Iron</b>	<b>0.43</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 17:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 17:50	1
<b>Manganese</b>	<b>0.046</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:50	1
Nickel	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:50	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 17:50	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:50	1
<b>Zinc</b>	<b>0.045</b>	<b>J</b>	0.10	0.020	mg/L		04/18/14 09:30	04/18/14 17:50	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		04/18/14 09:30	04/18/14 16:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 16:56	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		04/18/14 12:30	04/21/14 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.029</b>		0.020	0.0079	mg/Kg	☆	04/22/14 13:25	04/23/14 12:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.29</b>		0.200	0.200	SU			04/23/14 14:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-3**

**Lab Sample ID: 500-75227-22**

Date Collected: 04/16/14 11:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0072		0.0048	0.0021	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Bromomethane	<0.0048	*	0.0048	0.0015	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00069	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00064	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
1,2-Dichloropropane	<0.0048		0.0048	0.00074	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00064	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Styrene	<0.0048		0.0048	0.00064	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	✱	04/17/14 07:20	04/19/14 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 122	04/17/14 07:20	04/19/14 08:14	1
Dibromofluoromethane	114		75 - 120	04/17/14 07:20	04/19/14 08:14	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	04/17/14 07:20	04/19/14 08:14	1
Toluene-d8 (Surr)	100		75 - 122	04/17/14 07:20	04/19/14 08:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	✱	04/21/14 19:11	04/23/14 18:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	✱	04/21/14 19:11	04/23/14 18:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	✱	04/21/14 19:11	04/23/14 18:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	✱	04/21/14 19:11	04/23/14 18:05	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

Client Sample ID: 2615-243-B03-3

Lab Sample ID: 500-75227-22

Date Collected: 04/16/14 11:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.9

## 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	0.048	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>2-Methylnaphthalene</b>	<b>0.027</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>Fluorene</b>	<b>0.022</b>	<b>J</b>	0.040	0.0057	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>Phenanthrene</b>	<b>0.054</b>		0.040	0.0057	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.040	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.040	0.0081	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-3**

**Lab Sample ID: 500-75227-22**

Date Collected: 04/16/14 11:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.018</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>Benzo[b]fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.040	0.0088	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.028</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>Benzo[g,h,i]perylene</b>	<b>0.017</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	04/21/14 19:11	04/23/14 18:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	65		25 - 110				04/21/14 19:11	04/23/14 18:05	1
Phenol-d5	58		31 - 110				04/21/14 19:11	04/23/14 18:05	1
Nitrobenzene-d5	56		25 - 115				04/21/14 19:11	04/23/14 18:05	1
2-Fluorobiphenyl	64		25 - 119				04/21/14 19:11	04/23/14 18:05	1
2,4,6-Tribromophenol	74		35 - 137				04/21/14 19:11	04/23/14 18:05	1
Terphenyl-d14	167	X	36 - 134				04/21/14 19:11	04/23/14 18:05	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	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Arsenic</b>	<b>7.7</b>		0.58	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Barium</b>	<b>37</b>		0.58	0.062	mg/Kg	☼	04/18/14 08:50	04/22/14 05:18	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.046	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Boron</b>	<b>13</b>		2.9	0.58	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Cadmium</b>	<b>0.85</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Calcium</b>	<b>49000</b>		12	3.1	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Chromium</b>	<b>15</b>		0.58	0.067	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Cobalt</b>	<b>11</b>		0.29	0.058	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Copper</b>	<b>29</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Iron</b>	<b>19000</b>		12	4.7	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Lead</b>	<b>12</b>		0.29	0.086	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Magnesium</b>	<b>24000</b>		5.8	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Manganese</b>	<b>380</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Nickel</b>	<b>28</b>		0.58	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Potassium</b>	<b>2900</b>		29	1.7	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Selenium</b>	<b>0.58</b>		0.58	0.20	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Silver</b>	<b>0.053</b>	<b>J</b>	0.29	0.021	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Sodium</b>	<b>300</b>		58	7.7	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Thallium</b>	<b>0.81</b>		0.58	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Vanadium</b>	<b>17</b>		0.29	0.043	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1
<b>Zinc</b>	<b>38</b>		1.2	0.23	mg/Kg	☼	04/18/14 08:50	04/18/14 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		04/25/14 09:15	04/25/14 17:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

**Client Sample ID: 2615-243-B03-3**

**Lab Sample ID: 500-75227-22**

Date Collected: 04/16/14 11:20

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.067</b>	<b>J</b>	0.50	0.050	mg/L		04/18/14 09:30	04/18/14 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 17:56	1
<b>Boron</b>	<b>0.85</b>		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 17:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 17:56	1
Chromium	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:56	1
Cobalt	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:56	1
<b>Iron</b>	<b>1.5</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 17:56	1
<b>Lead</b>	<b>0.0080</b>		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 17:56	1
<b>Manganese</b>	<b>0.042</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:56	1
Nickel	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:56	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 17:56	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 17:56	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		04/18/14 09:30	04/18/14 17:56	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		04/18/14 09:30	04/18/14 16:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 16:59	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		04/18/14 12:30	04/21/14 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.025</b>		0.019	0.0074	mg/Kg	✱	04/22/14 13:25	04/23/14 12:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.31</b>		0.200	0.200	SU			04/23/14 14:41	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-3

## 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
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

### 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.
^	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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com					<b>Laboratory</b> Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com					Project Name: <u>I90/94 Chicago Cook</u>					COC No.: <u>1</u> of <u>1</u>																																																																																																																																																																																							
										Project No.: <u>IDOT 2013-061</u>					Lab Job No.: <u>500-75227</u>																																																																																																																																																																																							
<b>Special Instructions:</b> 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.					<b>ANALYSES</b>										<b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																																																																																																																																																																																							
					<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BETX &amp; MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>2615-243-B01-1</td> <td>4/16</td> <td>10:00</td> <td>S</td> <td>XX</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>XX</td> <td>XX</td> <td>X</td> <td>X</td> <td></td> <td>0-8</td> </tr> <tr> <td>14</td> <td>2615-243-B01-2</td> <td></td> <td>10:05</td> <td></td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>8-16</td> </tr> <tr> <td>15</td> <td>2615-243-B01-3</td> <td></td> <td>10:10</td> <td></td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>16-24</td> </tr> <tr> <td>16</td> <td>2615-243-B02-1</td> <td></td> <td>10:40</td> <td></td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>0-8</td> </tr> <tr> <td>17</td> <td>2615-243-B02-3DUP</td> <td></td> <td>10:50</td> <td></td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>16-24'</td> </tr> <tr> <td>18</td> <td>2615-243-B02-2</td> <td></td> <td>10:45</td> <td></td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>8-16</td> </tr> <tr> <td>19</td> <td>2615-243-B02-3</td> <td></td> <td>10:50</td> <td></td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>16-24</td> </tr> <tr> <td>20</td> <td>2615-243-B03-1</td> <td></td> <td>11:10</td> <td></td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>0-8</td> </tr> <tr> <td>21</td> <td>2615-243-B03-2</td> <td></td> <td>11:15</td> <td></td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>8-16</td> </tr> <tr> <td>22</td> <td>2615-243-B03-3</td> <td>✓</td> <td>11:20</td> <td>S</td> <td>XX</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>XX</td> <td>XX</td> <td>X</td> <td>X</td> <td></td> <td>16-24</td> </tr> </tbody> </table>												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	13	2615-243-B01-1	4/16	10:00	S	XX						XX	XX	X	X		0-8	14	2615-243-B01-2		10:05													8-16	15	2615-243-B01-3		10:10													16-24	16	2615-243-B02-1		10:40													0-8	17	2615-243-B02-3DUP		10:50													16-24'	18	2615-243-B02-2		10:45													8-16	19	2615-243-B02-3		10:50													16-24	20	2615-243-B03-1		11:10													0-8	21	2615-243-B03-2		11:15													8-16	22	2615-243-B03-3	✓	11:20	S	XX						XX
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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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
800 S. Des Plaines Street

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87080 Longitude: -87.64444  
(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: 0316375058 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: IL

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: I-90/94 at I-290 (Circle Interchange)

Latitude: 41.87080 Longitude: -87.64444

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 2615-248-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE No. 2615-248. SEE FIGURES 3 AND 4 AND TABLE 3i 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75227-4

**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:

6/2/14

Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-248**

**Chicago Maxwell Street Permit Center**

Sample ID	2615-248-B01	2615-248-B02-1	2615-248-B02-2	2615-248-B02-3	2615-248-B02-3 DUP	<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-8	8-16	16-24	16-24						
Sample Date	4/16/2014	4/16/2014	4/16/2014	4/16/2014	4/16/2014						
PID	0	0	0	0	0						
Sample pH	8.08	8.06	8.39	8.37	8.39						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>											

# 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: 500-75227-4  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
4/30/2014 2:08:36 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B01**

**Lab Sample ID: 500-75227-23**

**Date Collected: 04/16/14 09:00**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 80.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0089</b>		0.0048	0.0021	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Bromomethane	<0.0048 *		0.0048	0.0014	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Chloroethane	<0.0048 *		0.0048	0.0013	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	✪	04/17/14 07:20	04/19/14 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 122	04/17/14 07:20	04/19/14 08:37	1
Dibromofluoromethane	116		75 - 120	04/17/14 07:20	04/19/14 08:37	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/17/14 07:20	04/19/14 08:37	1
Toluene-d8 (Surr)	101		75 - 122	04/17/14 07:20	04/19/14 08:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	✪	04/21/14 19:11	04/23/14 18:23	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	✪	04/21/14 19:11	04/23/14 18:23	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	✪	04/21/14 19:11	04/23/14 18:23	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✪	04/21/14 19:11	04/23/14 18:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B01**

**Lab Sample ID: 500-75227-23**

Date Collected: 04/16/14 09:00

Matrix: Solid

Date Received: 04/17/14 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	<0.21		0.21	0.049	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
<b>2-Methylnaphthalene</b>	<b>0.026</b>	<b>J</b>	0.041	0.0076	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
<b>Fluorene</b>	<b>0.022</b>	<b>J</b>	0.041	0.0058	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
<b>Phenanthrene</b>	<b>0.055</b>		0.041	0.0057	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
<b>Fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.041	0.0076	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
<b>Pyrene</b>	<b>0.016</b>	<b>J</b>	0.041	0.0082	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B01**

**Lab Sample ID: 500-75227-23**

Date Collected: 04/16/14 09:00

Matrix: Solid

Date Received: 04/17/14 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
<b>Chrysene</b>	<b>0.020</b>	<b>J</b>	0.041	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
<b>Benzo[b]fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.041	0.0089	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
<b>Benzo[g,h,i]perylene</b>	<b>0.020</b>	<b>J</b>	0.041	0.013	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	04/21/14 19:11	04/23/14 18:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	54		25 - 110				04/21/14 19:11	04/23/14 18:23	1
Phenol-d5	50		31 - 110				04/21/14 19:11	04/23/14 18:23	1
Nitrobenzene-d5	46		25 - 115				04/21/14 19:11	04/23/14 18:23	1
2-Fluorobiphenyl	55		25 - 119				04/21/14 19:11	04/23/14 18:23	1
2,4,6-Tribromophenol	54		35 - 137				04/21/14 19:11	04/23/14 18:23	1
Terphenyl-d14	181	X	36 - 134				04/21/14 19:11	04/23/14 18:23	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	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Arsenic</b>	<b>6.3</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Barium</b>	<b>30</b>		0.61	0.066	mg/Kg	☼	04/18/14 08:50	04/22/14 05:23	1
<b>Beryllium</b>	<b>0.43</b>		0.25	0.049	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Boron</b>	<b>11</b>		3.1	0.61	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Cadmium</b>	<b>0.61</b>		0.12	0.016	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Calcium</b>	<b>39000</b>		12	3.3	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Chromium</b>	<b>13</b>		0.61	0.071	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Cobalt</b>	<b>8.8</b>		0.31	0.061	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Copper</b>	<b>23</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Iron</b>	<b>16000</b>		12	5.1	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Lead</b>	<b>10</b>		0.31	0.092	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Magnesium</b>	<b>20000</b>		6.1	1.3	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Manganese</b>	<b>290</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Nickel</b>	<b>23</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Potassium</b>	<b>2500</b>		31	1.9	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Selenium</b>	<b>0.42</b>	<b>J</b>	0.61	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Silver</b>	<b>0.045</b>	<b>J</b>	0.31	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Sodium</b>	<b>540</b>		61	8.2	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Thallium</b>	<b>0.57</b>	<b>J</b>	0.61	0.26	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Vanadium</b>	<b>14</b>		0.31	0.045	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1
<b>Zinc</b>	<b>33</b>		1.2	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 21:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.072</b>	<b>J</b>	0.50	0.050	mg/L		04/18/14 09:30	04/18/14 18:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 18:03	1
<b>Boron</b>	<b>0.88</b>		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 18:03	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B01**

**Lab Sample ID: 500-75227-23**

Date Collected: 04/16/14 09:00

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:03	1
Chromium	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:03	1
Cobalt	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:03	1
<b>Iron</b>	<b>0.50</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:03	1
<b>Manganese</b>	<b>0.042</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:03	1
Nickel	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:03	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:03	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:03	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:03	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		04/18/14 09:30	04/18/14 17:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 17:02	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		04/18/14 12:30	04/21/14 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.026</b>		0.018	0.0072	mg/Kg	☆	04/22/14 13:25	04/23/14 12:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.08</b>		0.200	0.200	SU			04/23/14 14:42	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-1**

**Lab Sample ID: 500-75227-24**

Date Collected: 04/16/14 09:10

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0058		0.0049	0.0021	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Bromomethane	<0.0049	*	0.0049	0.0015	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	04/17/14 07:20	04/19/14 09:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 122	04/17/14 07:20	04/19/14 09:00	1
Dibromofluoromethane	110		75 - 120	04/17/14 07:20	04/19/14 09:00	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	04/17/14 07:20	04/19/14 09:00	1
Toluene-d8 (Surr)	94		75 - 122	04/17/14 07:20	04/19/14 09:00	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	☼	04/21/14 19:11	04/23/14 18:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-1**

**Lab Sample ID: 500-75227-24**

**Date Collected: 04/16/14 09:10**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 83.7**

**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	*	04/21/14 19:11	04/23/14 18:40	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
<b>Fluorene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0055	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
<b>Phenanthrene</b>	<b>0.051</b>		0.039	0.0054	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Carbazole	<0.20		0.20	0.10	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
<b>Fluoranthene</b>	<b>0.018</b>	<b>J</b>	0.039	0.0072	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
<b>Pyrene</b>	<b>0.029</b>	<b>J</b>	0.039	0.0077	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	*	04/21/14 19:11	04/23/14 18:40	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-1**

**Lab Sample ID: 500-75227-24**

Date Collected: 04/16/14 09:10

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	<b>0.029</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.028</b>	<b>J</b>	0.039	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/21/14 19:11	04/23/14 18:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	61		25 - 110				04/21/14 19:11	04/23/14 18:40	1
Phenol-d5	56		31 - 110				04/21/14 19:11	04/23/14 18:40	1
Nitrobenzene-d5	51		25 - 115				04/21/14 19:11	04/23/14 18:40	1
2-Fluorobiphenyl	62		25 - 119				04/21/14 19:11	04/23/14 18:40	1
2,4,6-Tribromophenol	61		35 - 137				04/21/14 19:11	04/23/14 18:40	1
Terphenyl-d14	220	X	36 - 134				04/21/14 19:11	04/23/14 18:40	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Arsenic</b>	<b>8.3</b>		0.57	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Barium</b>	<b>35</b>		0.57	0.061	mg/Kg	☼	04/18/14 08:50	04/22/14 05:28	1
<b>Beryllium</b>	<b>0.45</b>		0.23	0.045	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Boron</b>	<b>12</b>		2.8	0.57	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Cadmium</b>	<b>0.85</b>		0.11	0.014	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Calcium</b>	<b>50000</b>		11	3.1	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Chromium</b>	<b>13</b>		0.57	0.066	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Cobalt</b>	<b>10</b>		0.28	0.057	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Copper</b>	<b>29</b>		0.57	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Iron</b>	<b>18000</b>		11	4.7	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Lead</b>	<b>12</b>		0.28	0.084	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Magnesium</b>	<b>25000</b>		5.7	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Manganese</b>	<b>360</b>		0.57	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Nickel</b>	<b>26</b>		0.57	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Potassium</b>	<b>2600</b>		28	1.7	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Selenium</b>	<b>0.45</b>	<b>J</b>	0.57	0.20	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Silver</b>	<b>0.056</b>	<b>J</b>	0.28	0.021	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Sodium</b>	<b>320</b>		57	7.6	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Thallium</b>	<b>0.88</b>		0.57	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Vanadium</b>	<b>15</b>		0.28	0.042	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1
<b>Zinc</b>	<b>45</b>		1.1	0.23	mg/Kg	☼	04/18/14 08:50	04/18/14 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		04/25/14 09:15	04/25/14 18:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-1**

**Lab Sample ID: 500-75227-24**

Date Collected: 04/16/14 09:10

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.077</b>	<b>J</b>	0.50	0.050	mg/L		04/18/14 09:30	04/18/14 18:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 18:09	1
<b>Boron</b>	<b>0.73</b>		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 18:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:09	1
Chromium	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:09	1
Cobalt	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:09	1
<b>Iron</b>	<b>0.44</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:09	1
<b>Lead</b>	<b>0.0080</b>		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:09	1
<b>Manganese</b>	<b>0.058</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:09	1
Nickel	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:09	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:09	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:09	1
<b>Zinc</b>	<b>0.051</b>	<b>J</b>	0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:09	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		04/18/14 09:30	04/18/14 15:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 15:47	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		04/18/14 12:30	04/21/14 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.042</b>		0.019	0.0073	mg/Kg	✱	04/22/14 13:25	04/23/14 12:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.06</b>		0.200	0.200	SU			04/23/14 14:44	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-2**

**Lab Sample ID: 500-75227-25**

Date Collected: 04/16/14 09:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Bromomethane	<0.0046	*	0.0046	0.0014	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Chloroethane	<0.0046	*	0.0046	0.0012	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
1,2-Dichloroethane	<0.0046		0.0046	0.00067	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☆	04/17/14 07:20	04/21/14 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 122	04/17/14 07:20	04/21/14 14:32	1
Dibromofluoromethane	117		75 - 120	04/17/14 07:20	04/21/14 14:32	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/17/14 07:20	04/21/14 14:32	1
Toluene-d8 (Surr)	100		75 - 122	04/17/14 07:20	04/21/14 14:32	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	☆	04/21/14 19:11	04/23/14 18:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☆	04/21/14 19:11	04/23/14 18:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	04/21/14 19:11	04/23/14 18:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☆	04/21/14 19:11	04/23/14 18:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-2**

**Lab Sample ID: 500-75227-25**

Date Collected: 04/16/14 09:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.3

**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	☼	04/21/14 19:11	04/23/14 18:57	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
<b>2-Methylnaphthalene</b>	<b>0.017</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
<b>Fluorene</b>	<b>0.020</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
<b>Phenanthrene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
<b>Fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
<b>Pyrene</b>	<b>0.0095</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-2**

**Lab Sample ID: 500-75227-25**

Date Collected: 04/16/14 09:20

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
<b>Benzo[g,h,i]perylene</b>	<b>0.015</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/21/14 19:11	04/23/14 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	04/21/14 19:11	04/23/14 18:57	1
Phenol-d5	49		31 - 110	04/21/14 19:11	04/23/14 18:57	1
Nitrobenzene-d5	53		25 - 115	04/21/14 19:11	04/23/14 18:57	1
2-Fluorobiphenyl	57		25 - 119	04/21/14 19:11	04/23/14 18:57	1
2,4,6-Tribromophenol	49		35 - 137	04/21/14 19:11	04/23/14 18:57	1
Terphenyl-d14	194	X	36 - 134	04/21/14 19:11	04/23/14 18:57	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	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Arsenic</b>	<b>7.0</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Barium</b>	<b>38</b>		0.61	0.065	mg/Kg	☼	04/18/14 08:50	04/22/14 05:33	1
<b>Beryllium</b>	<b>0.52</b>		0.24	0.048	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Boron</b>	<b>14</b>		3.0	0.61	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Cadmium</b>	<b>0.76</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Calcium</b>	<b>46000</b>		12	3.3	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Chromium</b>	<b>16</b>		0.61	0.070	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Cobalt</b>	<b>10</b>		0.30	0.061	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Copper</b>	<b>26</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Iron</b>	<b>19000</b>		12	5.0	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Lead</b>	<b>12</b>		0.30	0.090	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Magnesium</b>	<b>23000</b>		6.1	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Manganese</b>	<b>340</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Nickel</b>	<b>26</b>		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Potassium</b>	<b>3000</b>		30	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Selenium</b>	<b>0.55</b>	<b>J</b>	0.61	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Silver</b>	<b>0.044</b>	<b>J</b>	0.30	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Sodium</b>	<b>260</b>		61	8.1	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Thallium</b>	<b>0.70</b>		0.61	0.26	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Vanadium</b>	<b>18</b>		0.30	0.045	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1
<b>Zinc</b>	<b>40</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L	☼	04/18/14 09:30	04/18/14 18:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	☼	04/18/14 09:30	04/18/14 18:15	1
<b>Boron</b>	<b>0.85</b>		0.10	0.050	mg/L	☼	04/18/14 09:30	04/18/14 18:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-2**

**Lab Sample ID: 500-75227-25**

Date Collected: 04/16/14 09:20

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:15	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:15	1
Cobalt	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:15	1
<b>Iron</b>	<b>3.3</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:15	1
<b>Manganese</b>	<b>0.090</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:15	1
Nickel	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:15	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:15	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:15	1
<b>Zinc</b>	<b>0.040</b>	<b>J</b>	0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:15	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		04/18/14 09:30	04/18/14 15:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 15:50	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		04/18/14 12:30	04/21/14 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.018	0.0069	mg/Kg	☆	04/22/14 13:25	04/23/14 12:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.39</b>		0.200	0.200	SU			04/23/14 14:45	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-3**

**Lab Sample ID: 500-75227-26**

**Date Collected: 04/16/14 09:30**

**Matrix: Solid**

**Date Received: 04/17/14 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	<0.0048		0.0048	0.0021	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	04/17/14 07:20	04/22/14 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	04/17/14 07:20	04/22/14 15:57	1
Dibromofluoromethane	107		75 - 120	04/17/14 07:20	04/22/14 15:57	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/17/14 07:20	04/22/14 15:57	1
Toluene-d8 (Surr)	105		75 - 122	04/17/14 07:20	04/22/14 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-3**

**Lab Sample ID: 500-75227-26**

Date Collected: 04/16/14 09:30

Matrix: Solid

Date Received: 04/17/14 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	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
<b>Fluorene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0056	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
<b>Phenanthrene</b>	<b>0.042</b>		0.039	0.0055	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Carbazole	<0.20		0.20	0.10	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
<b>Fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0073	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0079	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	*	04/21/14 19:11	04/23/14 19:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-3**

**Lab Sample ID: 500-75227-26**

Date Collected: 04/16/14 09:30

Matrix: Solid

Date Received: 04/17/14 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	<0.039		0.039	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
<b>Benzo[b]fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/21/14 19:11	04/23/14 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		25 - 110	04/21/14 19:11	04/23/14 19:14	1
Phenol-d5	61		31 - 110	04/21/14 19:11	04/23/14 19:14	1
Nitrobenzene-d5	64		25 - 115	04/21/14 19:11	04/23/14 19:14	1
2-Fluorobiphenyl	72		25 - 119	04/21/14 19:11	04/23/14 19:14	1
2,4,6-Tribromophenol	60		35 - 137	04/21/14 19:11	04/23/14 19:14	1
Terphenyl-d14	227	X	36 - 134	04/21/14 19:11	04/23/14 19:14	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Arsenic</b>	<b>7.6</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Barium</b>	<b>35</b>		0.60	0.064	mg/Kg	☼	04/18/14 08:50	04/22/14 05:38	1
<b>Beryllium</b>	<b>0.48</b>		0.24	0.048	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Boron</b>	<b>12</b>		3.0	0.60	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Cadmium</b>	<b>0.82</b>		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Calcium</b>	<b>43000</b>		12	3.3	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Chromium</b>	<b>14</b>		0.60	0.070	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Cobalt</b>	<b>10</b>		0.30	0.060	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Copper</b>	<b>26</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Iron</b>	<b>18000</b>		12	4.9	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Lead</b>	<b>11</b>		0.30	0.089	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Magnesium</b>	<b>22000</b>		6.0	1.2	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Manganese</b>	<b>320</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Nickel</b>	<b>26</b>		0.60	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Potassium</b>	<b>2600</b>		30	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Selenium</b>	<b>0.59</b>	<b>J</b>	0.60	0.21	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Sodium</b>	<b>250</b>		60	8.0	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Thallium</b>	<b>0.67</b>		0.60	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Vanadium</b>	<b>16</b>		0.30	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1
<b>Zinc</b>	<b>43</b>		1.2	0.24	mg/Kg	☼	04/18/14 08:50	04/18/14 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>0.40</b>		0.20	0.20	mg/L		04/25/14 09:15	04/25/14 18:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/25/14 09:15	04/25/14 18:10	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		04/25/14 09:15	04/25/14 18:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-3**

**Lab Sample ID: 500-75227-26**

Date Collected: 04/16/14 09:30

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		04/18/14 09:30	04/18/14 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 18:21	1
<b>Boron</b>	<b>0.90</b>		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 18:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:21	1
<b>Chromium</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:21	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:21	1
<b>Iron</b>	<b>12</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:21	1
<b>Lead</b>	<b>0.012</b>		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:21	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:21	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:21	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:21	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:21	1
<b>Zinc</b>	<b>0.077</b>	<b>J</b>	0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:21	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		04/18/14 09:30	04/18/14 15:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 15:52	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		04/18/14 12:30	04/21/14 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.025</b>		0.021	0.0082	mg/Kg	☆	04/22/14 13:25	04/23/14 12:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.37</b>		0.200	0.200	SU			04/23/14 14:47	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-3 Dup**

**Lab Sample ID: 500-75227-27**

Date Collected: 04/16/14 09:30

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☆	04/17/14 07:20	04/22/14 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	04/17/14 07:20	04/22/14 16:21	1
Dibromofluoromethane	106		75 - 120	04/17/14 07:20	04/22/14 16:21	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/17/14 07:20	04/22/14 16:21	1
Toluene-d8 (Surr)	107		75 - 122	04/17/14 07:20	04/22/14 16:21	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	☆	04/21/14 19:11	04/23/14 19:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☆	04/21/14 19:11	04/23/14 19:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☆	04/21/14 19:11	04/23/14 19:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☆	04/21/14 19:11	04/23/14 19:32	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-3 Dup**

**Lab Sample ID: 500-75227-27**

**Date Collected: 04/16/14 09:30**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 80.2**

**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	*	04/21/14 19:11	04/23/14 19:32	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
<b>Fluorene</b>	<b>0.021</b>	<b>J</b>	0.040	0.0056	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
<b>Phenanthrene</b>	<b>0.041</b>		0.040	0.0056	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Carbazole	<0.20		0.20	0.10	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
<b>Fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.040	0.0075	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.040	0.0080	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	*	04/21/14 19:11	04/23/14 19:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

Client Sample ID: 2615-248-B02-3 Dup

Lab Sample ID: 500-75227-27

Date Collected: 04/16/14 09:30

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 80.2

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

Table with columns: Analyte, Result, Qualifier, RL, MDL, Unit, D, Prepared, Analyzed, Dil Fac. Includes entries for Chrysene, 3,3'-Dichlorobenzidine, Bis(2-ethylhexyl) phthalate, Di-n-octyl phthalate, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[a]pyrene, Indeno[1,2,3-cd]pyrene, Dibenz(a,h)anthracene, Benzo[g,h,i]perylene, and 3 & 4 Methylphenol.

Table with columns: Surrogate, %Recovery, Qualifier, Limits, Prepared, Analyzed, Dil Fac. Includes entries for 2-Fluorophenol, Phenol-d5, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, and Terphenyl-d14.

Method: 6010B - Metals (ICP)

Table with columns: Analyte, Result, Qualifier, RL, MDL, Unit, D, Prepared, Analyzed, Dil Fac. Lists various metals including Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

Method: 6010B - Metals (ICP) - TCLP

Table with columns: Analyte, Result, Qualifier, RL, MDL, Unit, D, Prepared, Analyzed, Dil Fac. Includes entries for Iron, Lead, and Manganese.

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

**Client Sample ID: 2615-248-B02-3 Dup**

**Lab Sample ID: 500-75227-27**

Date Collected: 04/16/14 09:30

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		04/18/14 09:30	04/21/14 16:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 18:42	1
<b>Boron</b>	<b>0.82</b>		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 18:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:42	1
<b>Chromium</b>	<b>0.035</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:42	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:42	1
<b>Iron</b>	<b>20</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:42	1
<b>Lead</b>	<b>0.014</b>		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:42	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:42	1
<b>Nickel</b>	<b>0.039</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:42	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:42	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:42	1
<b>Zinc</b>	<b>0.075</b>	<b>J</b>	0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:42	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		04/18/14 09:30	04/18/14 15:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 15:55	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		04/18/14 12:30	04/21/14 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.020	0.0079	mg/Kg	☆	04/22/14 13:25	04/23/14 12:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.39</b>		0.200	0.200	SU			04/23/14 14:48	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-4

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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.
X	Surrogate is outside 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.
^	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
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

<b>Client Contact</b>	<b>Laboratory</b>	Project Name: <u>I90/94 Chicago Cook</u>	COC No.: <u>1</u> of <u>1</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project No.: <u>IDOT 2013-061</u>	Lab Job No.: <u>500-75227</u>
		TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp:
		Sampler: <u>CF</u>	

**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

**Matrix Key:**  
W: Water  
S: Soil  
SL: Sludge  
S: Sediment  
L: Leachate  
DW: Drinking Water  
OL: Oil  
O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES											Comments							
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization								
23	2615-248-B01	4/16	9:00	S	X	X						X	X	X	X							0-4	
24	2615-248-B02-1	↓	9:10	S	X	X						X	X	X	X							0-8	
25	2615-248-B02-2	↓	9:20	S	X	X						X	X	X	X							8-16	
26	2615-248-B02-3	↓	9:30	S	X	X						X	X	X	X							16-24	
27	2615-248-B02-3 DUP	↓	9:30	S	X	X						X	X	X	X							16-24	

Relinquished by:	Date/Time: <u>4/16/14 15:30</u>	Received by:	Date/Time: <u>4/16/14 15:30</u>
Relinquished by:	Date/Time: <u>4-16-14 15:00</u>	Received by:	Date/Time: <u>4/17/14 0630</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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

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

900 S. Des Plaines Street

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Chicago City

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

Latitude: 41.87022 Longitude: -87.64449  
(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: IL

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: I-90/94 at I-290 (Circle Interchange)

Latitude: 41.87022 Longitude: -87.64449

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 2615-252-B01 WAS SAMPLED ADJACENT TO SITE No. 2615-252. SEE FIGURE 3 AND TABLE 3j 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75227-5

**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

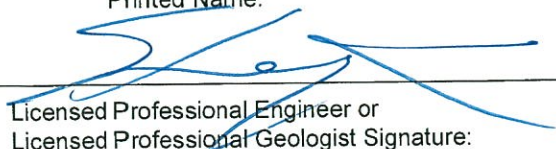
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/2/14

Date:



Seal:

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-252

IDOT Dan Ryan Field Office

Sample ID	2615-252-B01	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						
Sample Date	4/16/2014						
PID	0						
Sample pH	8.22						
Matrix	Soil						
<b>No Contaminants of Concern Noted.</b>							



# 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: 500-75227-5  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
4/30/2014 2:09:14 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Client Sample ID: 2615-252-B01**

**Lab Sample ID: 500-75227-28**

Date Collected: 04/16/14 08:40

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0069		0.0047	0.0021	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Bromomethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Chloroform	<0.0047		0.0047	0.00055	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Chloromethane	<0.0047		0.0047	0.0010	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Dibromochloromethane	<0.0047		0.0047	0.00083	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00077	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Tetrachloroethene	<0.0047		0.0047	0.00073	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Vinyl acetate	<0.0047		0.0047	0.00075	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Vinyl chloride	<0.0047		0.0047	0.0010	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	04/17/14 07:20	04/21/14 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 122	04/17/14 07:20	04/21/14 15:41	1
Dibromofluoromethane	119		75 - 120	04/17/14 07:20	04/21/14 15:41	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	04/17/14 07:20	04/21/14 15:41	1
Toluene-d8 (Surr)	102		75 - 122	04/17/14 07:20	04/21/14 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Client Sample ID: 2615-252-B01**

**Lab Sample ID: 500-75227-28**

**Date Collected: 04/16/14 08:40**

**Matrix: Solid**

**Date Received: 04/17/14 06:30**

**Percent Solids: 79.1**

**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	*	04/21/14 19:11	04/23/14 19:49	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
<b>2-Methylnaphthalene</b>	<b>0.036</b>	<b>J</b>	0.040	0.0074	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
<b>Fluorene</b>	<b>0.023</b>	<b>J</b>	0.040	0.0057	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
<b>Phenanthrene</b>	<b>0.069</b>		0.040	0.0056	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
<b>Fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.040	0.0075	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
<b>Pyrene</b>	<b>0.033</b>	<b>J</b>	0.040	0.0080	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	*	04/21/14 19:11	04/23/14 19:49	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

Client Sample ID: 2615-252-B01

Lab Sample ID: 500-75227-28

Date Collected: 04/16/14 08:40

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.040	0.011	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Benzo[g,h,i]perylene	0.023	J	0.040	0.013	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/21/14 19:11	04/23/14 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110				04/21/14 19:11	04/23/14 19:49	1
Phenol-d5	58		31 - 110				04/21/14 19:11	04/23/14 19:49	1
Nitrobenzene-d5	55		25 - 115				04/21/14 19:11	04/23/14 19:49	1
2-Fluorobiphenyl	69		25 - 119				04/21/14 19:11	04/23/14 19:49	1
2,4,6-Tribromophenol	67		35 - 137				04/21/14 19:11	04/23/14 19:49	1
Terphenyl-d14	206	X	36 - 134				04/21/14 19:11	04/23/14 19:49	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	☼	04/18/14 08:50	04/18/14 22:02	1
Arsenic	7.3		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Barium	35		0.61	0.065	mg/Kg	☼	04/18/14 08:50	04/22/14 05:48	1
Beryllium	0.47		0.24	0.049	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Boron	12		3.0	0.61	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Cadmium	0.71		0.12	0.015	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Calcium	53000		12	3.3	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Chromium	14		0.61	0.070	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Cobalt	10		0.30	0.061	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Copper	26		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Iron	18000		12	5.0	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Lead	12		0.30	0.090	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Magnesium	27000		6.1	1.3	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Manganese	360		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Nickel	26		0.61	0.12	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Potassium	2700		30	1.8	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Selenium	0.50	J	0.61	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Silver	0.033	J	0.30	0.022	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Sodium	1500		61	8.1	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Thallium	0.70		0.61	0.26	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Vanadium	16		0.30	0.045	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1
Zinc	48		1.2	0.25	mg/Kg	☼	04/18/14 08:50	04/18/14 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		04/25/14 09:15	04/25/14 18:20	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

**Client Sample ID: 2615-252-B01**

**Lab Sample ID: 500-75227-28**

Date Collected: 04/16/14 08:40

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		04/18/14 09:30	04/21/14 16:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Boron</b>	<b>0.74</b>		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 18:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
Cobalt	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Iron</b>	<b>4.2</b>		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:48	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:48	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		04/18/14 09:30	04/18/14 15:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 15:58	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		04/18/14 12:30	04/21/14 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.020	0.0078	mg/Kg	☆	04/22/14 13:25	04/23/14 12:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.22</b>		0.200	0.200	SU			04/23/14 14:49	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-5

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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.
X	Surrogate is outside control limits



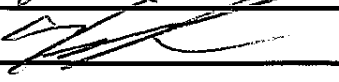
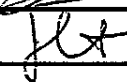
### Metals

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.
^	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
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

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com					<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com					Project Name: <u>I90/94 Chicago Cook</u> Project No.: <u>IDOT 2013-061</u> TAT: <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler:					COC No.: <u>1</u> of <u>1</u>							
<b>Special Instructions:</b> 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.					<b>ANALYSES</b>										<b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other							
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	
28	2015-252-B01	4/16	8:40	S	X	X					X	X	X	X								0-4
	<del>2015-252-B01-TCLP</del>			<del>S</del>	<del>X</del>	<del>X</del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>								
Relinquished by: 					Date/Time: 4/16/14/1530					Received by: 					Date/Time: 4/16/14/1530							
Relinquished by: 					Date/Time: 4/16/14/1700					Received by: 					Date/Time: 4/17/14/0630							
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: I-90/94 at I-290 (Circle Interchange) Office Phone Number, if available: \_\_\_\_\_

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

1004 S. Des Plaines Street

City: Chicago

State: IL

Zip Code: 60607

County: Cook

Township: Chicago City

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

Latitude: 41.86944 Longitude: -87.64440

(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: 0316285152 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: IL

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: I-90/94 at I-290 (Circle Interchange)  
Latitude: 41.86944 Longitude: -87.64440

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 2615-258-B01 WAS SAMPLED ADJACENT TO SITE No. 2615-258. SEE FIGURE 3 AND TABLE 3k 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID No.: 500-75227-6

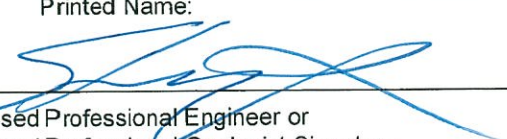
**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

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:

6/2/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
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
<b>Semivolatile Organic Compounds (mg/kg)</b>
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*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
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
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
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 2615-258

Citgo

Sample ID	2615-258-B01	<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non-Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4						
Sample Date	4/16/2014						
PID	0						
Sample pH	8.37						
Matrix	Soil						
<b>No Contaminants of Concern Noted.</b>							

# 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: 500-75227-6  
Client Project/Site: IDOT - I90/94 - WO 061

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

Attn: Mike Nelson



Authorized for release by:  
4/30/2014 2:09:39 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Client Sample ID: 2615-258-B01**

**Lab Sample ID: 500-75227-29**

Date Collected: 04/16/14 08:36

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 84.1

## 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	☼	04/17/14 07:20	04/22/14 16:45	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00073	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	04/17/14 07:20	04/22/14 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	04/17/14 07:20	04/22/14 16:45	1
Dibromofluoromethane	109		75 - 120	04/17/14 07:20	04/22/14 16:45	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/17/14 07:20	04/22/14 16:45	1
Toluene-d8 (Surr)	112		75 - 122	04/17/14 07:20	04/22/14 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

Client Sample ID: 2615-258-B01

Lab Sample ID: 500-75227-29

Date Collected: 04/16/14 08:36

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 84.1

## 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	☼	04/21/14 19:11	04/25/14 20:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Naphthalene</b>	<b>0.0097</b>	<b>J</b>	0.038	0.0059	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>2-Methylnaphthalene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Phenanthrene</b>	<b>0.064</b>		0.038	0.0053	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Fluoranthene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Pyrene</b>	<b>0.038</b>		0.038	0.0076	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Benzo[a]anthracene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0051	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Client Sample ID: 2615-258-B01**

**Lab Sample ID: 500-75227-29**

Date Collected: 04/16/14 08:36

Matrix: Solid

Date Received: 04/17/14 06:30

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chrysene</b>	0.027	J	0.038	0.010	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Benzo[b]fluoranthene</b>	0.024	J	0.038	0.0082	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Indeno[1,2,3-cd]pyrene</b>	0.010	J	0.038	0.0099	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Benzo[g,h,i]perylene</b>	0.016	J	0.038	0.012	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/21/14 19:11	04/25/14 20:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	54		25 - 110				04/21/14 19:11	04/25/14 20:28	1
Phenol-d5	55		31 - 110				04/21/14 19:11	04/25/14 20:28	1
Nitrobenzene-d5	47		25 - 115				04/21/14 19:11	04/25/14 20:28	1
2-Fluorobiphenyl	55		25 - 119				04/21/14 19:11	04/25/14 20:28	1
2,4,6-Tribromophenol	51		35 - 137				04/21/14 19:11	04/25/14 20:28	1
Terphenyl-d14	69		36 - 134				04/21/14 19:11	04/25/14 20:28	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	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Arsenic</b>	4.8		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Barium</b>	42		0.55	0.059	mg/Kg	☼	04/18/14 08:50	04/22/14 05:53	1
<b>Beryllium</b>	0.46		0.22	0.044	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Boron</b>	12		2.8	0.55	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Cadmium</b>	0.58		0.11	0.014	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Calcium</b>	55000		11	3.0	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Chromium</b>	15		0.55	0.064	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Cobalt</b>	7.6		0.28	0.055	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Copper</b>	20		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Iron</b>	14000		11	4.5	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Lead</b>	9.6		0.28	0.082	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Magnesium</b>	25000		5.5	1.1	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Manganese</b>	260		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Nickel</b>	20		0.55	0.11	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Potassium</b>	3000		28	1.7	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Selenium</b>	0.30	J	0.55	0.20	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Sodium</b>	4200		55	7.4	mg/Kg	☼	04/18/14 08:50	04/22/14 05:53	1
<b>Thallium</b>	0.43	J	0.55	0.23	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Vanadium</b>	16		0.28	0.041	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1
<b>Zinc</b>	28		1.1	0.22	mg/Kg	☼	04/18/14 08:50	04/18/14 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	0.38		0.20	0.20	mg/L		04/25/14 09:15	04/25/14 18:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/25/14 09:15	04/25/14 18:26	1
<b>Manganese</b>	0.61		0.025	0.010	mg/L		04/25/14 09:15	04/25/14 18:26	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

**Client Sample ID: 2615-258-B01**

**Lab Sample ID: 500-75227-29**

Date Collected: 04/16/14 08:36

Matrix: Solid

Date Received: 04/17/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.021	J	0.025	0.010	mg/L		04/25/14 09:15	04/25/14 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		04/18/14 09:30	04/21/14 16:38	1
Beryllium	0.0040		0.0040	0.0040	mg/L		04/18/14 09:30	04/18/14 18:55	1
Boron	0.86		0.10	0.050	mg/L		04/18/14 09:30	04/18/14 18:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/18/14 09:30	04/18/14 18:55	1
Chromium	0.10		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Cobalt	0.054		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Iron	72		0.20	0.20	mg/L		04/18/14 09:30	04/18/14 18:55	1
Lead	0.088		0.0075	0.0075	mg/L		04/18/14 09:30	04/18/14 18:55	1
Manganese	1.1		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Nickel	0.13		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Selenium	<0.050		0.050	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Silver	<0.025		0.025	0.010	mg/L		04/18/14 09:30	04/18/14 18:55	1
Zinc	0.18		0.10	0.020	mg/L		04/18/14 09:30	04/18/14 18:55	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		04/18/14 09:30	04/18/14 16:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/18/14 09:30	04/18/14 16:00	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		04/18/14 12:30	04/21/14 12:24	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	0.024		0.019	0.0076	mg/Kg	☼	04/22/14 13:25	04/23/14 12:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			04/23/14 14:51	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - I90/94 - WO 061

TestAmerica Job ID: 500-75227-6

## Qualifiers

### GC/MS Semi VOA

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.

### 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.
^	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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project Name: <u>I 90/94 Chicago Cook</u> Project No.: <u>IDOT 2013-061</u> TAP: <del>10 BD</del> <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CF</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-75227</u> Sample Temp:
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**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

**Matrix Key:**  
 W: Water  
 S: Soil  
 SL: Sludge  
 S: Sediment  
 L: Leachate  
 DW: Drinking Water  
 OL: Oil  
 O: Other

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
29	265-258-B01	4/16	8:36	S	X	X					X	X	X	X		0-41
	<del>265-258-B02</del>				<del>X</del>	<del>X</del>					<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>		

Relinquished by:	Date/Time: <u>4/16/14 1530</u>	Received by:	Date/Time: <u>4/16/14 1530</u>
Relinquished by:	Date/Time: <u>4-16-14 1700</u>	Received by:	Date/Time: <u>4/17/14 0630</u>
Relinquished by:	Date/Time:	Received by:	Date/Time: