



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1900-2000 Blocks of US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Big Rock

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

Latitude: 41.76401 Longitude: -88.49067
(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

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

Project Name: FAP 573 (US 30)Latitude: 41.76401 Longitude: -88.49067Uncontaminated 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 2819-2-B01, -B03, -B04, -B05, AND -B06 WERE SAMPLED ADJACENT TO ISGS SITE 2819-2. SEE FIGURE 2 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]:

TEKLAB ANALYTICAL WORK ORDER NO.: 14110426

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.

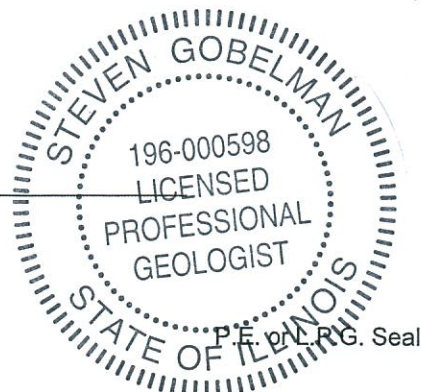
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/24/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-2

Burlington Northern Railroad

Sample ID	2819-2-B01	2819-2-B03	2819-2-B04	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)	0-5	0-5	0-5								
Sample Date	11/6/2014	11/6/2014	11/6/2014								
PID	0	0	0								
Sample pH	7.43	8.06	8.37								
Matrix	Soil	Soil	Soil								
Inorganic Compounds, Total (mg/kg)											
Arsenic	12.9	1.3	10.6	11.6	1.3	11.3	NA	11.3	NA	13	NA

Sample ID	2819-2-B05	2819-2-B06-1	2819-2-B06-2	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)	0-5	0-6	6-12						
Sample Date	11/6/2014	11/6/2014	11/6/2014						
PID	0	0	0						
Sample pH	7.98	8.43	8.35						
Matrix	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)									
Arsenic	10.3	7.23	9.93	11.3	NA	11.3	NA	13	NA

November 14, 2014

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-074

WorkOrder: 14110426

Dear Colleen Grey:

TEKLAB, INC received 9 samples on 11/7/2014 8:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

This reporting package includes the following:

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Chain of Custody	Appended

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Case Narrative

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Cooler Receipt Temp: 3.02 °C

Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
Fax	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
Email	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2015	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2015	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2015	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2015	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2015	Collinsville
Arkansas	ADEQ	88-0966		3/14/2015	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	KDEP	98006		12/31/2014	Collinsville
Kentucky	UST	0073		1/31/2015	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2015	Collinsville

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-001

Client Sample ID: 2819-2-B01

Matrix: SOLID

Collection Date: 11/06/2014 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		20.9	%	1	11/07/2014 18:18	R197469
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		79.1	%	1	11/07/2014 18:18	R197469
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.43		1	11/11/2014 18:26	R197563
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02	J	0.0078	mg/L	1	11/12/2014 12:40	103853
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0052	0.0055		0.0814	mg/L	1	11/11/2014 10:16	103795
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	11/11/2014 10:16	103795
Boron	NELAP	1	2		< 2	mg/L	1	11/11/2014 10:16	103795
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	11/11/2014 10:16	103795
Chromium	NELAP	0.004	0.01		0.013	mg/L	1	11/11/2014 10:16	103795
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	11/11/2014 10:16	103795
Iron	NELAP	0.007	0.02	X	11.3	mg/L	1	11/11/2014 10:16	103795
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	11/11/2014 10:16	103795
Manganese	NELAP	0.0016	0.005		0.055	mg/L	1	11/11/2014 10:16	103795
Nickel	NELAP	0.0033	0.01	J	0.0095	mg/L	1	11/11/2014 10:16	103795
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	11/11/2014 10:16	103795
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	11/11/2014 10:16	103795
Zinc	NELAP	0.0021	0.01		0.0342	mg/L	1	11/11/2014 10:16	103795
SW-846 1312, 3005A, 6020A, METALS IN SPLP EXTRACT BY ICPMS									
Antimony	NELAP	0.0002	0.001	J	0.0003	mg/L	5	11/11/2014 13:22	103796
Thallium	NELAP	0.0002	0.001		< 0.001	mg/L	5	11/12/2014 11:09	103796
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	11/11/2014 10:03	103801
SW-846 3050B, 6010B, METALS BY ICP									
Antimony	NELAP	1.47	4.9		< 4.9	mg/Kg-dry	1	11/10/2014 16:33	103751
Arsenic	NELAP	0.98	2.45	X	12.9	mg/Kg-dry	1	11/10/2014 16:16	103749
Barium	NELAP	0.1	0.25		295	mg/Kg-dry	1	11/10/2014 16:16	103749
Beryllium	NELAP	0.03	0.05		1.25	mg/Kg-dry	1	11/10/2014 16:16	103749
Boron	NELAP	0.49	1.96		7.2	mg/Kg-dry	1	11/10/2014 16:16	103749
Cadmium	NELAP	0.05	0.2		< 0.2	mg/Kg-dry	1	11/10/2014 16:16	103749
Calcium	NELAP	2.45	4.9		4440	mg/Kg-dry	1	11/10/2014 16:16	103749
Chromium	NELAP	0.1	0.49	X	29.4	mg/Kg-dry	1	11/10/2014 16:16	103749
Cobalt	NELAP	0.15	0.49		11.2	mg/Kg-dry	1	11/10/2014 16:16	103749
Copper	NELAP	0.15	0.49		24.5	mg/Kg-dry	1	11/10/2014 16:16	103749
Iron	NELAP	0.98	1.96	X	29200	mg/Kg-dry	1	11/10/2014 16:16	103749
Lead	NELAP	0.49	1.47		16.5	mg/Kg-dry	1	11/10/2014 16:16	103749
Magnesium	NELAP	0.39	4.9		5360	mg/Kg-dry	1	11/10/2014 16:16	103749
Manganese	NELAP	0.07	0.29	X	765	mg/Kg-dry	1	11/10/2014 16:16	103749
Nickel	NELAP	0.2	0.49		27.7	mg/Kg-dry	1	11/10/2014 16:16	103749
Potassium	NELAP	2.94	9.8		1900	mg/Kg-dry	1	11/10/2014 16:16	103749
Silver	NELAP	0.15	0.49		< 0.49	mg/Kg-dry	1	11/10/2014 16:16	103749
Sodium	NELAP	1.96	4.9		2560	mg/Kg-dry	1	11/10/2014 16:16	103749
Thallium	NELAP	1.47	2.55		< 2.55	mg/Kg-dry	1	11/10/2014 16:16	103749

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-001

Client Sample ID: 2819-2-B01

Matrix: SOLID

Collection Date: 11/06/2014 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.2	0.98		55	mg/Kg-dry	1	11/10/2014 16:16	103749
Zinc	NELAP	0.39	0.98	B	61.3	mg/Kg-dry	1	11/10/2014 16:16	103749
<i>Sample result(s) for Zn exceed 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 6020A, METALS BY ICPMS									
Selenium	NELAP	0.39	0.98		< 0.98	mg/Kg-dry	10	11/10/2014 20:02	103750
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.03	mg/Kg-dry	1	11/10/2014 9:32	103771
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.167	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
1,2-Dichlorobenzene	NELAP	0.2	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
1,3-Dichlorobenzene	NELAP	0.211	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
1,4-Dichlorobenzene	NELAP	0.2	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2,4,5-Trichlorophenol	NELAP	0.119	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2,4,6-Trichlorophenol	NELAP	0.158	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2,4-Dichlorophenol	NELAP	0.152	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2,4-Dimethylphenol	NELAP	0.159	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2,4-Dinitrophenol	NELAP	0.134	1.26		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2,4-Dinitrotoluene	NELAP	0.131	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2,6-Dinitrotoluene	NELAP	0.136	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2-Chloronaphthalene	NELAP	0.151	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2-Chlorophenol	NELAP	0.159	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2-Methylnaphthalene	NELAP	0.149	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2-Nitroaniline	NELAP	0.114	1.26		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
2-Nitrophenol	NELAP	0.141	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
3,3'-Dichlorobenzidine	NELAP	0.251	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
3-Nitroaniline	NELAP	0.103	1.26		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
4,6-Dinitro-2-methylphenol	NELAP	0.136	1.26		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
4-Bromophenyl phenyl ether	NELAP	0.115	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
4-Chloro-3-methylphenol	NELAP	0.138	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
4-Chloroaniline	NELAP	0.152	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
4-Chlorophenyl phenyl ether	NELAP	0.124	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
4-Nitroaniline	NELAP	0.114	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
4-Nitrophenol	NELAP	0.123	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Acenaphthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Acenaphthylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Benzo(a)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Benzo(a)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Benzo(b)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Benzo(g,h,i)perylene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Benzo(k)fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Bis(2-chloroethoxy)methane	NELAP	0.147	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Bis(2-chloroethyl)ether	NELAP	0.178	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Bis(2-chloroisopropyl)ether	NELAP	0.143	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Bis(2-ethylhexyl)phthalate	NELAP	0.147	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Butyl benzyl phthalate	NELAP	0.127	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Carbazole		0.153	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-001

Client Sample ID: 2819-2-B01

Matrix: SOLID

Collection Date: 11/06/2014 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Dibenzo(a,h)anthracene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Dibenzofuran	NELAP	0.158	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Diethyl phthalate	NELAP	0.121	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Dimethyl phthalate	NELAP	0.114	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Di-n-butyl phthalate	NELAP	0.129	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Di-n-octyl phthalate	NELAP	0.131	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Fluoranthene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Fluorene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Hexachlorobenzene	NELAP	0.21	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Hexachlorobutadiene	NELAP	0.195	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Hexachlorocyclopentadiene	NELAP	0.128	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Hexachloroethane	NELAP	0.21	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Indeno(1,2,3-cd)pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Isophorone	NELAP	0.148	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
m,p-Cresol	NELAP	0.158	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Naphthalene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Nitrobenzene	NELAP	0.157	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
N-Nitroso-di-n-propylamine	NELAP	0.138	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
N-Nitrosodiphenylamine	NELAP	0.115	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
o-Cresol	NELAP	0.148	0.628		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Pentachlorophenol	NELAP	0.828	2.51		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Phenanthrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Phenol	NELAP	0.146	0.439		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Pyrene	NELAP	0.021	0.043		ND	mg/Kg-dry	1	11/10/2014 16:12	103727
Surr: 2,4,6-Tribromophenol		0	19.9-112		67.2	%REC	1	11/10/2014 16:12	103727
Surr: 2-Fluorobiphenyl		0	29.1-86.5		65.1	%REC	1	11/10/2014 16:12	103727
Surr: 2-Fluorophenol		0	30.5-94.1		58.5	%REC	1	11/10/2014 16:12	103727
Surr: Nitrobenzene-d5		0	26.6-79.4		62.1	%REC	1	11/10/2014 16:12	103727
Surr: Phenol-d5		0	36.1-100		62.9	%REC	1	11/10/2014 16:12	103727
Surr: p-Terphenyl-d14		0	40.2-101		74	%REC	1	11/10/2014 16:12	103727
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
1,1,1,2,2-Tetrachloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
1,1,2-Trichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
1,1-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
1,1-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
1,2-Dichloroethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
1,2-Dichloropropane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
1,3-Dichloropropane, Total		0.001	0.004		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
2-Butanone	NELAP	0.0096	0.048	J	0.012	mg/Kg-dry	1	11/07/2014 14:56	103745
2-Hexanone	NELAP	0.0096	0.048		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
4-Methyl-2-pentanone	NELAP	0.0096	0.048		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Acetone	NELAP	0.0096	0.048	J	0.032	mg/Kg-dry	1	11/07/2014 14:56	103745
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Bromodichloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Bromoform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-001

Client Sample ID: 2819-2-B01

Matrix: SOLID

Collection Date: 11/06/2014 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Carbon disulfide	NELAP	0.0029	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Carbon tetrachloride	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Chlorobenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Chloroethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Chloroform	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Chloromethane	NELAP	0.0019	0.01		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
cis-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
cis-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Dibromochloromethane	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Ethylbenzene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
m,p-Xylenes	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Methylene chloride	NELAP	0.001	0.005	J	0.002	mg/Kg-dry	1	11/07/2014 14:56	103745
o-Xylene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Styrene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Tetrachloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Toluene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
trans-1,2-Dichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
trans-1,3-Dichloropropene	NELAP	0.001	0.004		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Trichloroethene	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Vinyl acetate	NELAP	0.0192	0.048		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Xylenes, Total	NELAP	0.001	0.005		ND	mg/Kg-dry	1	11/07/2014 14:56	103745
Surr: 1,2-Dichloroethane-d4		0	72.2-131		118.8	%REC	1	11/07/2014 14:56	103745
Surr: 4-Bromofluorobenzene		0	82.1-116		101.7	%REC	1	11/07/2014 14:56	103745
Surr: Dibromofluoromethane		0	77.7-120		102.7	%REC	1	11/07/2014 14:56	103745
Surr: Toluene-d8		0	86-116		94.3	%REC	1	11/07/2014 14:56	103745

Allowable Marginal Exceedance of Tetrachloroethene in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-003

Client Sample ID: 2819-2-B03

Matrix: SOLID

Collection Date: 11/06/2014 10:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		19.2	%	1	11/07/2014 18:19	R197469
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		80.8	%	1	11/07/2014 18:19	R197469
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.06		1	11/11/2014 18:32	R197563
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		< 0.02	mg/L	1	11/12/2014 13:04	103853
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0052	0.0055		0.0517	mg/L	1	11/11/2014 10:23	103795
Beryllium	NELAP	0.0003	0.001	J	0.0004	mg/L	1	11/11/2014 10:23	103795
Boron	NELAP	1	2		< 2	mg/L	1	11/11/2014 10:23	103795
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	11/11/2014 10:23	103795
Chromium	NELAP	0.004	0.01		0.0126	mg/L	1	11/11/2014 10:23	103795
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	11/11/2014 10:23	103795
Iron	NELAP	0.007	0.02	X	11.5	mg/L	1	11/11/2014 10:23	103795
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	11/11/2014 10:23	103795
Manganese	NELAP	0.0016	0.005		0.0758	mg/L	1	11/11/2014 10:23	103795
Nickel	NELAP	0.0033	0.01	J	0.0094	mg/L	1	11/11/2014 10:23	103795
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	11/11/2014 10:23	103795
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	11/11/2014 10:23	103795
Zinc	NELAP	0.0021	0.01		0.0329	mg/L	1	11/11/2014 10:23	103795
SW-846 1312, 3005A, 6020A, METALS IN SPLP EXTRACT BY ICPMS									
Antimony	NELAP	0.0002	0.001	J	0.0003	mg/L	5	11/11/2014 13:36	103796
Thallium	NELAP	0.0002	0.001	J	0.001	mg/L	5	11/11/2014 13:36	103796
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	11/11/2014 10:08	103801
SW-846 3050B, 6010B, METALS BY ICP									
Antimony	NELAP	1.44	4.81		< 4.81	mg/Kg-dry	1	11/10/2014 16:46	103751
Arsenic	NELAP	0.98	2.45		10.6	mg/Kg-dry	1	11/10/2014 16:23	103749
Barium	NELAP	0.1	0.25		170	mg/Kg-dry	1	11/10/2014 16:23	103749
Beryllium	NELAP	0.03	0.05		0.87	mg/Kg-dry	1	11/10/2014 16:23	103749
Boron	NELAP	0.49	1.96		4.5	mg/Kg-dry	1	11/10/2014 16:23	103749
Cadmium	NELAP	0.05	0.2	J	0.05	mg/Kg-dry	1	11/10/2014 16:23	103749
Calcium	NELAP	2.45	4.9		3020	mg/Kg-dry	1	11/10/2014 16:23	103749
Chromium	NELAP	0.1	0.49	X	20.9	mg/Kg-dry	1	11/10/2014 16:23	103749
Cobalt	NELAP	0.15	0.49		10.3	mg/Kg-dry	1	11/10/2014 16:23	103749
Copper	NELAP	0.15	0.49		18.7	mg/Kg-dry	1	11/10/2014 16:23	103749
Iron	NELAP	0.98	1.96	X	24900	mg/Kg-dry	1	11/10/2014 16:23	103749
Lead	NELAP	0.49	1.47		14.4	mg/Kg-dry	1	11/10/2014 16:23	103749
Magnesium	NELAP	0.39	4.9		4160	mg/Kg-dry	1	11/10/2014 16:23	103749
Manganese	NELAP	0.07	0.29	X	855	mg/Kg-dry	1	11/10/2014 16:23	103749
Nickel	NELAP	0.2	0.49		22.4	mg/Kg-dry	1	11/10/2014 16:23	103749
Potassium	NELAP	2.94	9.8		1330	mg/Kg-dry	1	11/10/2014 16:23	103749
Silver	NELAP	0.15	0.49		< 0.49	mg/Kg-dry	1	11/10/2014 16:23	103749
Sodium	NELAP	1.96	4.9		2410	mg/Kg-dry	1	11/10/2014 16:23	103749
Thallium	NELAP	1.47	2.55		< 2.55	mg/Kg-dry	1	11/10/2014 16:23	103749

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-003

Client Sample ID: 2819-2-B03

Matrix: SOLID

Collection Date: 11/06/2014 10:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.2	0.98		41.2	mg/Kg-dry	1	11/10/2014 16:23	103749
Zinc	NELAP	0.39	0.98	B	55.7	mg/Kg-dry	1	11/10/2014 16:23	103749
<i>Sample result(s) for Zn exceed 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 6020A, METALS BY ICPMS									
Selenium	NELAP	0.39	0.98		< 0.98	mg/Kg-dry	10	11/10/2014 20:21	103750
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.046	mg/Kg-dry	1	11/10/2014 9:37	103771
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.163	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
1,2-Dichlorobenzene	NELAP	0.194	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
1,3-Dichlorobenzene	NELAP	0.205	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
1,4-Dichlorobenzene	NELAP	0.194	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2,4,5-Trichlorophenol	NELAP	0.116	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2,4,6-Trichlorophenol	NELAP	0.154	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2,4-Dichlorophenol	NELAP	0.148	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2,4-Dimethylphenol	NELAP	0.155	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2,4-Dinitrophenol	NELAP	0.131	1.22		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2,4-Dinitrotoluene	NELAP	0.127	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2,6-Dinitrotoluene	NELAP	0.132	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2-Chloronaphthalene	NELAP	0.147	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2-Chlorophenol	NELAP	0.155	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2-Methylnaphthalene	NELAP	0.146	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2-Nitroaniline	NELAP	0.111	1.22		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
2-Nitrophenol	NELAP	0.137	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
3,3'-Dichlorobenzidine	NELAP	0.245	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
3-Nitroaniline	NELAP	0.1	1.22		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
4,6-Dinitro-2-methylphenol	NELAP	0.132	1.22		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
4-Bromophenyl phenyl ether	NELAP	0.113	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
4-Chloro-3-methylphenol	NELAP	0.135	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
4-Chloroaniline	NELAP	0.148	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
4-Chlorophenyl phenyl ether	NELAP	0.121	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
4-Nitroaniline	NELAP	0.111	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
4-Nitrophenol	NELAP	0.12	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Acenaphthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Acenaphthylene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Benzo(a)anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Benzo(a)pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Benzo(b)fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Benzo(g,h,i)perylene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Benzo(k)fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Bis(2-chloroethoxy)methane	NELAP	0.143	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Bis(2-chloroethyl)ether	NELAP	0.174	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Bis(2-chloroisopropyl)ether	NELAP	0.139	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Bis(2-ethylhexyl)phthalate	NELAP	0.143	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Butyl benzyl phthalate	NELAP	0.124	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Carbazole		0.149	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-003

Client Sample ID: 2819-2-B03

Matrix: SOLID

Collection Date: 11/06/2014 10:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Dibenzo(a,h)anthracene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Dibenzofuran	NELAP	0.154	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Diethyl phthalate	NELAP	0.117	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Dimethyl phthalate	NELAP	0.111	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Di-n-butyl phthalate	NELAP	0.126	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Di-n-octyl phthalate	NELAP	0.127	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Fluoranthene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Fluorene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Hexachlorobenzene	NELAP	0.204	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Hexachlorobutadiene	NELAP	0.19	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Hexachlorocyclopentadiene	NELAP	0.125	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Hexachloroethane	NELAP	0.204	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Isophorone	NELAP	0.144	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
m,p-Cresol	NELAP	0.154	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Naphthalene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Nitrobenzene	NELAP	0.153	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
N-Nitroso-di-n-propylamine	NELAP	0.135	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
N-Nitrosodiphenylamine	NELAP	0.113	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
o-Cresol	NELAP	0.144	0.612		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Pentachlorophenol	NELAP	0.807	2.45		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Phenanthrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Phenol	NELAP	0.142	0.428		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Pyrene	NELAP	0.02	0.042		ND	mg/Kg-dry	1	11/10/2014 14:27	103727
Surr: 2,4,6-Tribromophenol		0	19.9-112		70.7	%REC	1	11/10/2014 14:27	103727
Surr: 2-Fluorobiphenyl		0	29.1-86.5		70.9	%REC	1	11/10/2014 14:27	103727
Surr: 2-Fluorophenol		0	30.5-94.1		63.3	%REC	1	11/10/2014 14:27	103727
Surr: Nitrobenzene-d5		0	26.6-79.4		66	%REC	1	11/10/2014 14:27	103727
Surr: Phenol-d5		0	36.1-100		66.5	%REC	1	11/10/2014 14:27	103727
Surr: p-Terphenyl-d14		0	40.2-101		81.2	%REC	1	11/10/2014 14:27	103727
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
1,1,1,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
2-Butanone	NELAP	0.0092	0.046	J	0.011	mg/Kg-dry	1	11/07/2014 15:48	103745
2-Hexanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
4-Methyl-2-pentanone	NELAP	0.0092	0.046		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Acetone	NELAP	0.0092	0.046	J	0.046	mg/Kg-dry	1	11/07/2014 15:48	103745
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-003

Client Sample ID: 2819-2-B03

Matrix: SOLID

Collection Date: 11/06/2014 10:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Carbon disulfide	NELAP	0.0028	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
m,p-Xylenes	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Methylene chloride	NELAP	0.0009	0.005	J	0.002	mg/Kg-dry	1	11/07/2014 15:48	103745
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Vinyl acetate	NELAP	0.0184	0.046		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Xylenes, Total	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 15:48	103745
Surr: 1,2-Dichloroethane-d4		0	72.2-131		117.9	%REC	1	11/07/2014 15:48	103745
Surr: 4-Bromofluorobenzene		0	82.1-116		100.5	%REC	1	11/07/2014 15:48	103745
Surr: Dibromofluoromethane		0	77.7-120		104.6	%REC	1	11/07/2014 15:48	103745
Surr: Toluene-d8		0	86-116		94.4	%REC	1	11/07/2014 15:48	103745

Allowable Marginal Exceedance of Tetrachloroethene in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-004

Client Sample ID: 2819-2-B04

Matrix: SOLID

Collection Date: 11/06/2014 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10.6	%	1	11/07/2014 18:20	R197469
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89.4	%	1	11/07/2014 18:20	R197469
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.37		1	11/11/2014 18:34	R197563
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		0.022	mg/L	1	11/12/2014 14:16	103854
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0052	0.0055		0.153	mg/L	1	11/11/2014 10:51	103795
Beryllium	NELAP	0.0003	0.001		0.0014	mg/L	1	11/11/2014 10:51	103795
Boron	NELAP	1	2		< 2	mg/L	1	11/11/2014 10:51	103795
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	11/11/2014 10:51	103795
Chromium	NELAP	0.004	0.01		0.0293	mg/L	1	11/11/2014 10:51	103795
Cobalt	NELAP	0.0022	0.01	J	0.0041	mg/L	1	11/11/2014 10:51	103795
Iron	NELAP	0.007	0.02	X	29.6	mg/L	1	11/11/2014 10:51	103795
Lead	NELAP	0.006	0.007		0.0073	mg/L	1	11/11/2014 10:51	103795
Manganese	NELAP	0.0016	0.005		0.148	mg/L	1	11/11/2014 10:51	103795
Nickel	NELAP	0.0033	0.01		0.0328	mg/L	1	11/11/2014 10:51	103795
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	11/11/2014 10:51	103795
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	11/11/2014 10:51	103795
Zinc	NELAP	0.0021	0.01		0.0679	mg/L	1	11/11/2014 10:51	103795
SW-846 1312, 3005A, 6020A, METALS IN SPLP EXTRACT BY ICPMS									
Antimony	NELAP	0.0002	0.001	J	0.0005	mg/L	5	11/11/2014 13:43	103796
Thallium	NELAP	0.0002	0.001	J	0.001	mg/L	5	11/11/2014 13:43	103796
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	11/11/2014 10:10	103801
SW-846 3050B, 6010B, METALS BY ICP									
Antimony	NELAP	1.36	4.55		< 4.55	mg/Kg-dry	1	11/10/2014 16:52	103751
Arsenic	NELAP	0.93	2.31	X	11.6	mg/Kg-dry	1	11/10/2014 16:27	103749
Barium	NELAP	0.09	0.23		125	mg/Kg-dry	1	11/10/2014 16:27	103749
Beryllium	NELAP	0.03	0.05		1.18	mg/Kg-dry	1	11/10/2014 16:27	103749
Boron	NELAP	0.46	1.85		6.94	mg/Kg-dry	1	11/10/2014 16:27	103749
Cadmium	NELAP	0.05	0.19		< 0.19	mg/Kg-dry	1	11/10/2014 16:27	103749
Calcium	NELAP	2.31	4.63		3920	mg/Kg-dry	1	11/10/2014 16:27	103749
Chromium	NELAP	0.09	0.46	X	26.8	mg/Kg-dry	1	11/10/2014 16:27	103749
Cobalt	NELAP	0.14	0.46		9.73	mg/Kg-dry	1	11/10/2014 16:27	103749
Copper	NELAP	0.14	0.46		24.2	mg/Kg-dry	1	11/10/2014 16:27	103749
Iron	NELAP	0.93	1.85	X	28700	mg/Kg-dry	1	11/10/2014 16:27	103749
Lead	NELAP	0.46	1.39		13.6	mg/Kg-dry	1	11/10/2014 16:27	103749
Magnesium	NELAP	0.37	4.63		5170	mg/Kg-dry	1	11/10/2014 16:27	103749
Manganese	NELAP	0.06	0.28		601	mg/Kg-dry	1	11/10/2014 16:27	103749
Nickel	NELAP	0.19	0.46		27.9	mg/Kg-dry	1	11/10/2014 16:27	103749
Potassium	NELAP	2.78	9.26		1800	mg/Kg-dry	1	11/10/2014 16:27	103749
Silver	NELAP	0.14	0.46		< 0.46	mg/Kg-dry	1	11/10/2014 16:27	103749
Sodium	NELAP	1.85	4.63		2210	mg/Kg-dry	1	11/10/2014 16:27	103749
Thallium	NELAP	1.39	2.41		< 2.41	mg/Kg-dry	1	11/10/2014 16:27	103749

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-004

Client Sample ID: 2819-2-B04

Matrix: SOLID

Collection Date: 11/06/2014 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.19	0.93		48.6	mg/Kg-dry	1	11/10/2014 16:27	103749
Zinc	NELAP	0.37	0.93	B	56.9	mg/Kg-dry	1	11/10/2014 16:27	103749
<i>Sample result(s) for Zn exceed 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 6020A, METALS BY ICPMS									
Selenium	NELAP	0.37	0.93		< 0.93	mg/Kg-dry	10	11/10/2014 20:31	103750
SW-846 7471B									
Mercury	NELAP	0.003	0.011		0.019	mg/Kg-dry	1	11/10/2014 9:39	103771
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.148	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
1,2-Dichlorobenzene	NELAP	0.177	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
1,3-Dichlorobenzene	NELAP	0.187	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
1,4-Dichlorobenzene	NELAP	0.177	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2,4,5-Trichlorophenol	NELAP	0.106	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2,4,6-Trichlorophenol	NELAP	0.14	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2,4-Dichlorophenol	NELAP	0.135	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2,4-Dimethylphenol	NELAP	0.141	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2,4-Dinitrophenol	NELAP	0.119	1.11		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2,4-Dinitrotoluene	NELAP	0.116	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2,6-Dinitrotoluene	NELAP	0.12	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2-Chloronaphthalene	NELAP	0.134	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2-Chlorophenol	NELAP	0.141	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2-Methylnaphthalene	NELAP	0.133	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2-Nitroaniline	NELAP	0.101	1.11		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
2-Nitrophenol	NELAP	0.125	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
3,3'-Dichlorobenzidine	NELAP	0.223	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
3-Nitroaniline	NELAP	0.091	1.11		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
4,6-Dinitro-2-methylphenol	NELAP	0.12	1.11		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
4-Bromophenyl phenyl ether	NELAP	0.102	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
4-Chloro-3-methylphenol	NELAP	0.123	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
4-Chloroaniline	NELAP	0.135	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
4-Chlorophenyl phenyl ether	NELAP	0.11	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
4-Nitroaniline	NELAP	0.101	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
4-Nitrophenol	NELAP	0.109	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Bis(2-chloroethoxy)methane	NELAP	0.13	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Bis(2-chloroethyl)ether	NELAP	0.158	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Bis(2-ethylhexyl)phthalate	NELAP	0.13	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Butyl benzyl phthalate	NELAP	0.112	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Carbazole		0.136	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-004

Client Sample ID: 2819-2-B04

Matrix: SOLID

Collection Date: 11/06/2014 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Dibenzofuran	NELAP	0.14	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Diethyl phthalate	NELAP	0.107	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Dimethyl phthalate	NELAP	0.101	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Di-n-butyl phthalate	NELAP	0.115	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Di-n-octyl phthalate	NELAP	0.116	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Hexachlorobenzene	NELAP	0.186	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Hexachlorobutadiene	NELAP	0.173	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Hexachlorocyclopentadiene	NELAP	0.114	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Hexachloroethane	NELAP	0.186	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Isophorone	NELAP	0.131	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
m,p-Cresol	NELAP	0.14	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Nitrobenzene	NELAP	0.139	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
N-Nitroso-di-n-propylamine	NELAP	0.123	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
N-Nitrosodiphenylamine	NELAP	0.102	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
o-Cresol	NELAP	0.131	0.557		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Pentachlorophenol	NELAP	0.735	2.23		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Phenol	NELAP	0.129	0.39		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 15:02	103727
Surr: 2,4,6-Tribromophenol		0	19.9-112		68.4	%REC	1	11/10/2014 15:02	103727
Surr: 2-Fluorobiphenyl		0	29.1-86.5		67	%REC	1	11/10/2014 15:02	103727
Surr: 2-Fluorophenol		0	30.5-94.1		62.3	%REC	1	11/10/2014 15:02	103727
Surr: Nitrobenzene-d5		0	26.6-79.4		64.7	%REC	1	11/10/2014 15:02	103727
Surr: Phenol-d5		0	36.1-100		65.8	%REC	1	11/10/2014 15:02	103727
Surr: p-Terphenyl-d14		0	40.2-101		77.3	%REC	1	11/10/2014 15:02	103727
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
1,1,2,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
1,3-Dichloropropane, Total		0.0008	0.003		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
2-Butanone	NELAP	0.0078	0.039	J	0.023	mg/Kg-dry	1	11/07/2014 16:14	103745
2-Hexanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
4-Methyl-2-pentanone	NELAP	0.0078	0.039		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Acetone	NELAP	0.0078	0.039		0.051	mg/Kg-dry	1	11/07/2014 16:14	103745
Benzene	NELAP	0.0004	0.001		0.003	mg/Kg-dry	1	11/07/2014 16:14	103745
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-004

Client Sample ID: 2819-2-B04

Matrix: SOLID

Collection Date: 11/06/2014 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Ethylbenzene	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	11/07/2014 16:14	103745
m,p-Xylenes	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	11/07/2014 16:14	103745
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Methylene chloride	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 16:14	103745
o-Xylene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 16:14	103745
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Toluene	NELAP	0.0008	0.004		0.005	mg/Kg-dry	1	11/07/2014 16:14	103745
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Vinyl acetate	NELAP	0.0157	0.039		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	11/07/2014 16:14	103745
Xylenes, Total	NELAP	0.0008	0.004	J	0.004	mg/Kg-dry	1	11/07/2014 16:14	103745
Surr: 1,2-Dichloroethane-d4		0	72.2-131		117.5	%REC	1	11/07/2014 16:14	103745
Surr: 4-Bromofluorobenzene		0	82.1-116		103.6	%REC	1	11/07/2014 16:14	103745
Surr: Dibromofluoromethane		0	77.7-120		105.1	%REC	1	11/07/2014 16:14	103745
Surr: Toluene-d8		0	86-116		95.2	%REC	1	11/07/2014 16:14	103745

Allowable Marginal Exceedance of Tetrachloroethene in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-005

Client Sample ID: 2819-2-B05

Matrix: SOLID

Collection Date: 11/06/2014 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		19.4	%	1	11/07/2014 18:20	R197469
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		80.6	%	1	11/07/2014 18:20	R197469
SW-846 9045C									
pH (1:1)	NELAP	0	1		7.98		1	11/11/2014 18:38	R197563
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02	J	0.0079	mg/L	1	11/12/2014 13:10	103853
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0052	0.0055		0.0804	mg/L	1	11/11/2014 10:54	103795
Beryllium	NELAP	0.0003	0.001	J	0.0006	mg/L	1	11/11/2014 10:54	103795
Boron	NELAP	1	2		< 2	mg/L	1	11/11/2014 10:54	103795
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	11/11/2014 10:54	103795
Chromium	NELAP	0.004	0.01		0.0165	mg/L	1	11/11/2014 10:54	103795
Cobalt	NELAP	0.0022	0.01	J	0.0022	mg/L	1	11/11/2014 10:54	103795
Iron	NELAP	0.007	0.02	X	16.2	mg/L	1	11/11/2014 10:54	103795
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	11/11/2014 10:54	103795
Manganese	NELAP	0.0016	0.005		0.102	mg/L	1	11/11/2014 10:54	103795
Nickel	NELAP	0.0033	0.01		0.0125	mg/L	1	11/11/2014 10:54	103795
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	11/11/2014 10:54	103795
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	11/11/2014 10:54	103795
Zinc	NELAP	0.0021	0.01		0.0444	mg/L	1	11/11/2014 10:54	103795
SW-846 1312, 3005A, 6020A, METALS IN SPLP EXTRACT BY ICPMS									
Antimony	NELAP	0.0002	0.001	J	0.0005	mg/L	5	11/11/2014 14:14	103796
Thallium	NELAP	0.0002	0.001	J	0.0005	mg/L	5	11/11/2014 14:14	103796
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	11/11/2014 10:12	103801
SW-846 3050B, 6010B, METALS BY ICP									
Antimony	NELAP	1.5	5		< 5	mg/Kg-dry	1	11/10/2014 16:58	103751
Arsenic	NELAP	0.94	2.36		10.3	mg/Kg-dry	1	11/10/2014 16:30	103749
Barium	NELAP	0.09	0.24		113	mg/Kg-dry	1	11/10/2014 16:30	103749
Beryllium	NELAP	0.03	0.05		0.96	mg/Kg-dry	1	11/10/2014 16:30	103749
Boron	NELAP	0.47	1.89		5.74	mg/Kg-dry	1	11/10/2014 16:30	103749
Cadmium	NELAP	0.05	0.19		< 0.19	mg/Kg-dry	1	11/10/2014 16:30	103749
Calcium	NELAP	2.36	4.72		2870	mg/Kg-dry	1	11/10/2014 16:30	103749
Chromium	NELAP	0.09	0.47	X	22.3	mg/Kg-dry	1	11/10/2014 16:30	103749
Cobalt	NELAP	0.14	0.47		12.2	mg/Kg-dry	1	11/10/2014 16:30	103749
Copper	NELAP	0.14	0.47		22.3	mg/Kg-dry	1	11/10/2014 16:30	103749
Iron	NELAP	0.94	1.89	X	25500	mg/Kg-dry	1	11/10/2014 16:30	103749
Lead	NELAP	0.47	1.42		12.8	mg/Kg-dry	1	11/10/2014 16:30	103749
Magnesium	NELAP	0.38	4.72		3910	mg/Kg-dry	1	11/10/2014 16:30	103749
Manganese	NELAP	0.07	0.28	X	977	mg/Kg-dry	1	11/10/2014 16:30	103749
Nickel	NELAP	0.19	0.47		19.9	mg/Kg-dry	1	11/10/2014 16:30	103749
Potassium	NELAP	2.83	9.43		1500	mg/Kg-dry	1	11/10/2014 16:30	103749
Silver	NELAP	0.14	0.47		< 0.47	mg/Kg-dry	1	11/10/2014 16:30	103749
Sodium	NELAP	1.89	4.72		1040	mg/Kg-dry	1	11/10/2014 16:30	103749
Thallium	NELAP	1.42	2.45		< 2.45	mg/Kg-dry	1	11/10/2014 16:30	103749

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-005

Client Sample ID: 2819-2-B05

Matrix: SOLID

Collection Date: 11/06/2014 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.19	0.94		42.7	mg/Kg-dry	1	11/10/2014 16:30	103749
Zinc	NELAP	0.38	0.94	B	54.8	mg/Kg-dry	1	11/10/2014 16:30	103749
<i>Sample result(s) for Zn exceed 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 6020A, METALS BY ICPMS									
Selenium	NELAP	0.38	0.94		< 0.94	mg/Kg-dry	10	11/10/2014 21:08	103750
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.031	mg/Kg-dry	1	11/10/2014 9:41	103771
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.82	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
1,2-Dichlorobenzene	NELAP	0.98	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
1,3-Dichlorobenzene	NELAP	1.04	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
1,4-Dichlorobenzene	NELAP	0.98	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2,4,5-Trichlorophenol	NELAP	0.586	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2,4,6-Trichlorophenol	NELAP	0.777	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2,4-Dichlorophenol	NELAP	0.746	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2,4-Dimethylphenol	NELAP	0.783	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2,4-Dinitrophenol	NELAP	0.66	6.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2,4-Dinitrotoluene	NELAP	0.641	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2,6-Dinitrotoluene	NELAP	0.666	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2-Chloronaphthalene	NELAP	0.74	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2-Chlorophenol	NELAP	0.783	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2-Methylnaphthalene	NELAP	0.734	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2-Nitroaniline	NELAP	0.561	6.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
2-Nitrophenol	NELAP	0.69	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
3,3'-Dichlorobenzidine	NELAP	1.23	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
3-Nitroaniline	NELAP	0.505	6.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
4,6-Dinitro-2-methylphenol	NELAP	0.666	6.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
4-Bromophenyl phenyl ether	NELAP	0.567	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
4-Chloro-3-methylphenol	NELAP	0.678	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
4-Chloroaniline	NELAP	0.746	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
4-Chlorophenyl phenyl ether	NELAP	0.61	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
4-Nitroaniline	NELAP	0.561	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
4-Nitrophenol	NELAP	0.604	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Acenaphthene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Acenaphthylene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Anthracene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Benzo(a)anthracene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Benzo(a)pyrene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Benzo(b)fluoranthene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Benzo(g,h,i)perylene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Benzo(k)fluoranthene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Bis(2-chloroethoxy)methane	NELAP	0.721	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Bis(2-chloroethyl)ether	NELAP	0.875	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Bis(2-chloroisopropyl)ether	NELAP	0.703	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Bis(2-ethylhexyl)phthalate	NELAP	0.721	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Butyl benzyl phthalate	NELAP	0.623	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Carbazole		0.752	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-005

Client Sample ID: 2819-2-B05

Matrix: SOLID

Collection Date: 11/06/2014 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Dibenzo(a,h)anthracene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Dibenzofuran	NELAP	0.777	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Diethyl phthalate	NELAP	0.592	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Dimethyl phthalate	NELAP	0.561	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Di-n-butyl phthalate	NELAP	0.635	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Di-n-octyl phthalate	NELAP	0.641	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Fluoranthene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Fluorene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Hexachlorobenzene	NELAP	1.03	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Hexachlorobutadiene	NELAP	0.955	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Hexachlorocyclopentadiene	NELAP	0.629	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Hexachloroethane	NELAP	1.03	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Indeno(1,2,3-cd)pyrene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Isophorone	NELAP	0.727	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
m,p-Cresol	NELAP	0.777	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Naphthalene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Nitrobenzene	NELAP	0.771	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
N-Nitroso-di-n-propylamine	NELAP	0.678	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
N-Nitrosodiphenylamine	NELAP	0.567	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
o-Cresol	NELAP	0.727	3.08		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Pentachlorophenol	NELAP	4.07	12.3		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Phenanthrene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Phenol	NELAP	0.715	2.16		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Pyrene	NELAP	0.103	0.21		ND	mg/Kg-dry	5	11/10/2014 17:21	103727
Surr: 2,4,6-Tribromophenol		0	19.9-112		95.5	%REC	5	11/10/2014 17:21	103727
Surr: 2-Fluorobiphenyl		0	29.1-86.5		80	%REC	5	11/10/2014 17:21	103727
Surr: 2-Fluorophenol		0	30.5-94.1		71.9	%REC	5	11/10/2014 17:21	103727
Surr: Nitrobenzene-d5		0	26.6-79.4		72.8	%REC	5	11/10/2014 17:21	103727
Surr: Phenol-d5		0	36.1-100		78.4	%REC	5	11/10/2014 17:21	103727
Surr: p-Terphenyl-d14		0	40.2-101		90	%REC	5	11/10/2014 17:21	103727
<i>Elevated reporting limit due to sample extract composition.</i>									
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
1,1,2-Trichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
1,1-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
1,1-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
1,2-Dichloroethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
1,2-Dichloropropane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
1,3-Dichloropropene, Total		0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
2-Butanone	NELAP	0.009	0.045	J	0.017	mg/Kg-dry	1	11/07/2014 16:40	103745
2-Hexanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
4-Methyl-2-pentanone	NELAP	0.009	0.045		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Acetone	NELAP	0.009	0.045		0.046	mg/Kg-dry	1	11/07/2014 16:40	103745
Benzene	NELAP	0.0005	0.001		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Bromodichloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-005

Client Sample ID: 2819-2-B05

Matrix: SOLID

Collection Date: 11/06/2014 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Bromomethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Carbon disulfide	NELAP	0.0027	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Carbon tetrachloride	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Chlorobenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Chloroethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Chloroform	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Chloromethane	NELAP	0.0018	0.009		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
cis-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
cis-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Dibromochloromethane	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Ethylbenzene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
m,p-Xylenes	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Methyl tert-butyl ether	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Methylene chloride	NELAP	0.0009	0.005	J	0.004	mg/Kg-dry	1	11/07/2014 16:40	103745
o-Xylene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Styrene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Tetrachloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Toluene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
trans-1,2-Dichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
trans-1,3-Dichloropropene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Trichloroethene	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Vinyl acetate	NELAP	0.0181	0.045		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Vinyl chloride	NELAP	0.0005	0.002		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Xylenes, Total	NELAP	0.0009	0.005		ND	mg/Kg-dry	1	11/07/2014 16:40	103745
Surr: 1,2-Dichloroethane-d4		0	72.2-131		116.2	%REC	1	11/07/2014 16:40	103745
Surr: 4-Bromofluorobenzene		0	82.1-116		98.7	%REC	1	11/07/2014 16:40	103745
Surr: Dibromofluoromethane		0	77.7-120		104.4	%REC	1	11/07/2014 16:40	103745
Surr: Toluene-d8		0	86-116		92.3	%REC	1	11/07/2014 16:40	103745

Allowable Marginal Exceedance of Tetrachloroethene in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-006

Client Sample ID: 2819-2-B06-1

Matrix: SOLID

Collection Date: 11/06/2014 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		15.5	%	1	11/07/2014 18:20	R197469
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		84.5	%	1	11/07/2014 18:20	R197469
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.43		1	11/11/2014 18:39	R197563
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0052	0.0055		0.0267	mg/L	1	11/11/2014 10:58	103795
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	11/11/2014 10:58	103795
Boron	NELAP	1	2		< 2	mg/L	1	11/11/2014 10:58	103795
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	11/11/2014 10:58	103795
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	11/11/2014 10:58	103795
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	11/11/2014 10:58	103795
Iron	NELAP	0.007	0.02		2.52	mg/L	1	11/11/2014 10:58	103795
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	11/11/2014 10:58	103795
Manganese	NELAP	0.0016	0.005		0.0218	mg/L	1	11/11/2014 10:58	103795
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	11/11/2014 10:58	103795
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	11/11/2014 10:58	103795
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	11/11/2014 10:58	103795
Zinc	NELAP	0.0021	0.01		0.0169	mg/L	1	11/11/2014 10:58	103795
SW-846 1312, 3005A, 6020A, METALS IN SPLP EXTRACT BY ICPMS									
Antimony	NELAP	0.0002	0.001	J	0.0003	mg/L	5	11/11/2014 14:21	103796
Thallium	NELAP	0.0002	0.001	J	0.0003	mg/L	5	11/11/2014 14:21	103796
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	11/11/2014 10:15	103801
SW-846 3050B, 6010B, METALS BY ICP									
Antimony	NELAP	1.39	4.63		< 4.63	mg/Kg-dry	1	11/10/2014 17:04	103751
Arsenic	NELAP	0.94	2.36		7.23	mg/Kg-dry	1	11/10/2014 16:34	103749
Barium	NELAP	0.09	0.24		108	mg/Kg-dry	1	11/10/2014 16:34	103749
Beryllium	NELAP	0.03	0.05		0.57	mg/Kg-dry	1	11/10/2014 16:34	103749
Boron	NELAP	0.47	1.89		7.22	mg/Kg-dry	1	11/10/2014 16:34	103749
Cadmium	NELAP	0.05	0.19	J	0.12	mg/Kg-dry	1	11/10/2014 16:34	103749
Calcium	NELAP	2.36	4.72		40300	mg/Kg-dry	1	11/10/2014 16:34	103749
Chromium	NELAP	0.09	0.47	X	18.2	mg/Kg-dry	1	11/10/2014 16:34	103749
Cobalt	NELAP	0.14	0.47		7	mg/Kg-dry	1	11/10/2014 16:34	103749
Copper	NELAP	0.14	0.47		15.9	mg/Kg-dry	1	11/10/2014 16:34	103749
Iron	NELAP	0.94	1.89	X	17200	mg/Kg-dry	1	11/10/2014 16:34	103749
Lead	NELAP	0.47	1.42		23.1	mg/Kg-dry	1	11/10/2014 16:34	103749
Magnesium	NELAP	0.38	4.72		21700	mg/Kg-dry	1	11/10/2014 16:34	103749
Manganese	NELAP	0.07	0.28		595	mg/Kg-dry	1	11/10/2014 16:34	103749
Nickel	NELAP	0.19	0.47		14.9	mg/Kg-dry	1	11/10/2014 16:34	103749
Potassium	NELAP	2.83	9.43		1490	mg/Kg-dry	1	11/10/2014 16:34	103749
Silver	NELAP	0.14	0.47		< 0.47	mg/Kg-dry	1	11/10/2014 16:34	103749
Sodium	NELAP	1.89	4.72		346	mg/Kg-dry	1	11/10/2014 16:34	103749
Thallium	NELAP	1.42	2.45		< 2.45	mg/Kg-dry	1	11/10/2014 16:34	103749
Vanadium	NELAP	0.19	0.94		30.6	mg/Kg-dry	1	11/10/2014 16:34	103749
Zinc	NELAP	0.38	0.94	B	58.7	mg/Kg-dry	1	11/10/2014 16:34	103749

Sample result(s) for Zn exceed 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-006

Client Sample ID: 2819-2-B06-1

Matrix: SOLID

Collection Date: 11/06/2014 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6020A, METALS BY ICPMS									
Selenium	NELAP	0.38	0.94		< 0.94	mg/Kg-dry	10	11/10/2014 21:18	103750
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.037	mg/Kg-dry	1	11/10/2014 9:48	103771
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	1.55	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
1,2-Dichlorobenzene	NELAP	1.85	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
1,3-Dichlorobenzene	NELAP	1.96	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
1,4-Dichlorobenzene	NELAP	1.85	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2,4,5-Trichlorophenol	NELAP	1.11	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2,4,6-Trichlorophenol	NELAP	1.47	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2,4-Dichlorophenol	NELAP	1.41	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2,4-Dimethylphenol	NELAP	1.48	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2,4-Dinitrophenol	NELAP	1.25	11.7		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2,4-Dinitrotoluene	NELAP	1.21	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2,6-Dinitrotoluene	NELAP	1.26	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2-Chloronaphthalene	NELAP	1.4	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2-Chlorophenol	NELAP	1.48	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2-Methylnaphthalene	NELAP	1.39	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2-Nitroaniline	NELAP	1.06	11.7		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
2-Nitrophenol	NELAP	1.31	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
3,3'-Dichlorobenzidine	NELAP	2.33	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
3-Nitroaniline	NELAP	0.956	11.7		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
4,6-Dinitro-2-methylphenol	NELAP	1.26	11.7		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
4-Bromophenyl phenyl ether	NELAP	1.07	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
4-Chloro-3-methylphenol	NELAP	1.28	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
4-Chloroaniline	NELAP	1.41	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
4-Chlorophenyl phenyl ether	NELAP	1.15	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
4-Nitroaniline	NELAP	1.06	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
4-Nitrophenol	NELAP	1.14	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Acenaphthene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Acenaphthylene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Anthracene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Benzo(a)anthracene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Benzo(a)pyrene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Benzo(b)fluoranthene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Benzo(g,h,i)perylene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Benzo(k)fluoranthene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Bis(2-chloroethoxy)methane	NELAP	1.36	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Bis(2-chloroethyl)ether	NELAP	1.66	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Bis(2-chloroisopropyl)ether	NELAP	1.33	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Bis(2-ethylhexyl)phthalate	NELAP	1.36	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Butyl benzyl phthalate	NELAP	1.18	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Carbazole		1.42	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Chrysene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Dibenzo(a,h)anthracene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Dibenzofuran	NELAP	1.47	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Diethyl phthalate	NELAP	1.12	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-006

Client Sample ID: 2819-2-B06-1

Matrix: SOLID

Collection Date: 11/06/2014 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	1.06	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Di-n-butyl phthalate	NELAP	1.2	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Di-n-octyl phthalate	NELAP	1.21	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Fluoranthene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Fluorene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Hexachlorobenzene	NELAP	1.95	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Hexachlorobutadiene	NELAP	1.81	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Hexachlorocyclopentadiene	NELAP	1.19	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Hexachloroethane	NELAP	1.95	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Indeno(1,2,3-cd)pyrene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Isophorone	NELAP	1.38	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
m,p-Cresol	NELAP	1.47	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Naphthalene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Nitrobenzene	NELAP	1.46	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
N-Nitroso-di-n-propylamine	NELAP	1.28	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
N-Nitrosodiphenylamine	NELAP	1.07	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
o-Cresol	NELAP	1.38	5.83		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Pentachlorophenol	NELAP	7.7	23.3		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Phenanthrene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Phenol	NELAP	1.35	4.08		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Pyrene	NELAP	0.195	0.396		ND	mg/Kg-dry	10	11/10/2014 19:41	103727
Surr: 2,4,6-Tribromophenol		0	19.9-112		110.7	%REC	10	11/10/2014 19:41	103727
Surr: 2-Fluorobiphenyl		0	29.1-86.5		66.5	%REC	10	11/10/2014 19:41	103727
Surr: 2-Fluorophenol		0	30.5-94.1		59.2	%REC	10	11/10/2014 19:41	103727
Surr: Nitrobenzene-d5		0	26.6-79.4		60.4	%REC	10	11/10/2014 19:41	103727
Surr: Phenol-d5		0	36.1-100		64.1	%REC	10	11/10/2014 19:41	103727
Surr: p-Terphenyl-d14		0	40.2-101		75.2	%REC	10	11/10/2014 19:41	103727

Elevated reporting limit due to sample extract composition.

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
1,1,1,2-Tetrachloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
1,1,2-Trichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
1,1-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
1,1-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
1,2-Dichloroethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
1,2-Dichloropropane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
1,3-Dichloropropene, Total		0.0008	0.003		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
2-Butanone	NELAP	0.008	0.04	J	0.027	mg/Kg-dry	1	11/07/2014 17:06	103745
2-Hexanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
4-Methyl-2-pentanone	NELAP	0.008	0.04		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Acetone	NELAP	0.008	0.04		0.07	mg/Kg-dry	1	11/07/2014 17:06	103745
Benzene	NELAP	0.0004	0.001		0.001	mg/Kg-dry	1	11/07/2014 17:06	103745
Bromodichloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Bromoform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Bromomethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Carbon disulfide	NELAP	0.0024	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Carbon tetrachloride	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-006

Client Sample ID: 2819-2-B06-1

Matrix: SOLID

Collection Date: 11/06/2014 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chlorobenzene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Chloroethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Chloroform	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Chloromethane	NELAP	0.0016	0.008		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
cis-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
cis-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Dibromochloromethane	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Ethylbenzene	NELAP	0.0008	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 17:06	103745
m,p-Xylenes	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	11/07/2014 17:06	103745
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Methylene chloride	NELAP	0.0008	0.004	J	0.004	mg/Kg-dry	1	11/07/2014 17:06	103745
o-Xylene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Styrene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Tetrachloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Toluene	NELAP	0.0008	0.004	J	0.003	mg/Kg-dry	1	11/07/2014 17:06	103745
trans-1,2-Dichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
trans-1,3-Dichloropropene	NELAP	0.0008	0.003		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Trichloroethene	NELAP	0.0008	0.004		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Vinyl acetate	NELAP	0.016	0.04		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	11/07/2014 17:06	103745
Xylenes, Total	NELAP	0.0008	0.004	J	0.002	mg/Kg-dry	1	11/07/2014 17:06	103745
Surr: 1,2-Dichloroethane-d4		0	72.2-131		112.5	%REC	1	11/07/2014 17:06	103745
Surr: 4-Bromofluorobenzene		0	82.1-116		105	%REC	1	11/07/2014 17:06	103745
Surr: Dibromofluoromethane		0	77.7-120		102.7	%REC	1	11/07/2014 17:06	103745
Surr: Toluene-d8		0	86-116		97.4	%REC	1	11/07/2014 17:06	103745

Allowable Marginal Exceedance of Tetrachloroethene in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-007

Client Sample ID: 2819-2-B06-2

Matrix: SOLID

Collection Date: 11/06/2014 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		18.3	%	1	11/07/2014 18:35	R197469
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		81.7	%	1	11/07/2014 18:35	R197469
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.35		1	11/11/2014 18:42	R197563
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02	J	0.0088	mg/L	1	11/12/2014 13:16	103853
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0052	0.0055		0.0511	mg/L	1	11/11/2014 11:09	103795
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	11/11/2014 11:09	103795
Boron	NELAP	1	2		< 2	mg/L	1	11/11/2014 11:09	103795
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	11/11/2014 11:09	103795
Chromium	NELAP	0.004	0.01	J	0.008	mg/L	1	11/11/2014 11:09	103795
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	11/11/2014 11:09	103795
Iron	NELAP	0.007	0.02	X	6.09	mg/L	1	11/11/2014 11:09	103795
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	11/11/2014 11:09	103795
Manganese	NELAP	0.0016	0.005		0.0447	mg/L	1	11/11/2014 11:09	103795
Nickel	NELAP	0.0033	0.01	J	0.0061	mg/L	1	11/11/2014 11:09	103795
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	11/11/2014 11:09	103795
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	11/11/2014 11:09	103795
Zinc	NELAP	0.0021	0.01		0.0247	mg/L	1	11/11/2014 11:09	103795
SW-846 1312, 3005A, 6020A, METALS IN SPLP EXTRACT BY ICPMS									
Antimony	NELAP	0.0002	0.001		0.0012	mg/L	5	11/11/2014 14:29	103796
Thallium	NELAP	0.0002	0.001	J	0.0003	mg/L	5	11/11/2014 14:29	103796
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	11/11/2014 10:19	103801
SW-846 3050B, 6010B, METALS BY ICP									
Antimony	NELAP	1.44	4.81		< 4.81	mg/Kg-dry	1	11/10/2014 17:10	103751
Arsenic	NELAP	0.91	2.27		9.93	mg/Kg-dry	1	11/10/2014 16:38	103749
Barium	NELAP	0.09	0.23		111	mg/Kg-dry	1	11/10/2014 16:38	103749
Beryllium	NELAP	0.03	0.05		0.66	mg/Kg-dry	1	11/10/2014 16:38	103749
Boron	NELAP	0.45	1.82		9.12	mg/Kg-dry	1	11/11/2014 13:11	103749
Cadmium	NELAP	0.05	0.18	J	0.09	mg/Kg-dry	1	11/10/2014 16:38	103749
Calcium	NELAP	2.27	4.55	S	41800	mg/Kg-dry	1	11/10/2014 16:38	103749
Chromium	NELAP	0.09	0.45	X	18.6	mg/Kg-dry	1	11/10/2014 16:38	103749
Cobalt	NELAP	0.14	0.45		8.88	mg/Kg-dry	1	11/10/2014 16:38	103749
Copper	NELAP	0.14	0.45		19.2	mg/Kg-dry	1	11/10/2014 16:38	103749
Iron	NELAP	0.91	1.82	SX	22500	mg/Kg-dry	1	11/10/2014 16:38	103749
Lead	NELAP	0.45	1.36		14.4	mg/Kg-dry	1	11/10/2014 16:38	103749
Magnesium	NELAP	0.36	4.55	S	22600	mg/Kg-dry	1	11/10/2014 16:38	103749
Manganese	NELAP	0.06	0.27	SX	645	mg/Kg-dry	1	11/10/2014 16:38	103749
Nickel	NELAP	0.18	0.45		19.8	mg/Kg-dry	1	11/10/2014 16:38	103749
Potassium	NELAP	2.73	9.09	S	1910	mg/Kg-dry	1	11/10/2014 16:38	103749
Silver	NELAP	0.14	0.45		< 0.45	mg/Kg-dry	1	11/10/2014 16:38	103749
Sodium	NELAP	1.82	4.55		750	mg/Kg-dry	1	11/10/2014 16:38	103749
Thallium	NELAP	1.36	2.36		< 2.36	mg/Kg-dry	1	11/10/2014 16:38	103749

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-007

Client Sample ID: 2819-2-B06-2

Matrix: SOLID

Collection Date: 11/06/2014 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.18	0.91		32.9	mg/Kg-dry	1	11/10/2014 16:38	103749
Zinc	NELAP	0.36	0.91	B	54.1	mg/Kg-dry	1	11/10/2014 16:38	103749
<i>Sample result(s) for Zn exceed 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
<i>MS QC limits for Ca, Fe, Mg, Mn, and K are not applicable due to high sample/spike ratio.</i>									
SW-846 3050B, 6020A, METALS BY ICPMS									
Selenium	NELAP	0.36	0.91		< 0.91	mg/Kg-dry	10	11/10/2014 21:27	103750
SW-846 7471B									
Mercury	NELAP	0.003	0.012		0.033	mg/Kg-dry	1	11/10/2014 9:55	103771
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.162	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
1,2-Dichlorobenzene	NELAP	0.194	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
1,3-Dichlorobenzene	NELAP	0.205	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
1,4-Dichlorobenzene	NELAP	0.194	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2,4,5-Trichlorophenol	NELAP	0.116	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2,4,6-Trichlorophenol	NELAP	0.154	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2,4-Dichlorophenol	NELAP	0.147	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2,4-Dimethylphenol	NELAP	0.155	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2,4-Dinitrophenol	NELAP	0.13	1.22		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2,4-Dinitrotoluene	NELAP	0.127	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2,6-Dinitrotoluene	NELAP	0.132	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2-Chloronaphthalene	NELAP	0.146	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2-Chlorophenol	NELAP	0.155	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2-Methylnaphthalene	NELAP	0.145	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2-Nitroaniline	NELAP	0.111	1.22		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
2-Nitrophenol	NELAP	0.136	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
3,3'-Dichlorobenzidine	NELAP	0.244	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
3-Nitroaniline	NELAP	0.1	1.22		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
4,6-Dinitro-2-methylphenol	NELAP	0.132	1.22		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
4-Bromophenyl phenyl ether	NELAP	0.112	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
4-Chloro-3-methylphenol	NELAP	0.134	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
4-Chloroaniline	NELAP	0.147	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
4-Chlorophenyl phenyl ether	NELAP	0.121	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
4-Nitroaniline	NELAP	0.111	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
4-Nitrophenol	NELAP	0.119	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Acenaphthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Acenaphthylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Benzo(a)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Benzo(a)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Benzo(b)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Benzo(g,h,i)perylene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Benzo(k)fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Bis(2-chloroethoxy)methane	NELAP	0.143	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Bis(2-chloroethyl)ether	NELAP	0.173	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Bis(2-chloroisopropyl)ether	NELAP	0.139	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Bis(2-ethylhexyl)phthalate	NELAP	0.143	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Butyl benzyl phthalate	NELAP	0.123	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-007

Client Sample ID: 2819-2-B06-2

Matrix: SOLID

Collection Date: 11/06/2014 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Carbazole		0.149	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Chrysene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Dibenzo(a,h)anthracene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Dibenzofuran	NELAP	0.154	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Diethyl phthalate	NELAP	0.117	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Dimethyl phthalate	NELAP	0.111	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Di-n-butyl phthalate	NELAP	0.126	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Di-n-octyl phthalate	NELAP	0.127	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Fluoranthene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Fluorene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Hexachlorobenzene	NELAP	0.203	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Hexachlorobutadiene	NELAP	0.189	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Hexachlorocyclopentadiene	NELAP	0.124	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Hexachloroethane	NELAP	0.203	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Indeno(1,2,3-cd)pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Isophorone	NELAP	0.144	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
m,p-Cresol	NELAP	0.154	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Naphthalene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Nitrobenzene	NELAP	0.152	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
N-Nitroso-di-n-propylamine	NELAP	0.134	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
N-Nitrosodiphenylamine	NELAP	0.112	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
o-Cresol	NELAP	0.144	0.609		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Pentachlorophenol	NELAP	0.804	2.44		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Phenanthrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Phenol	NELAP	0.141	0.426		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Pyrene	NELAP	0.02	0.041		ND	mg/Kg-dry	1	11/10/2014 16:47	103727
Surr: 2,4,6-Tribromophenol		0	19.9-112		69.9	%REC	1	11/10/2014 16:47	103727
Surr: 2-Fluorobiphenyl		0	29.1-86.5		65	%REC	1	11/10/2014 16:47	103727
Surr: 2-Fluorophenol		0	30.5-94.1		62.9	%REC	1	11/10/2014 16:47	103727
Surr: Nitrobenzene-d5		0	26.6-79.4		64.9	%REC	1	11/10/2014 16:47	103727
Surr: Phenol-d5		0	36.1-100		66.4	%REC	1	11/10/2014 16:47	103727
Surr: p-Terphenyl-d14		0	40.2-101		76.2	%REC	1	11/10/2014 16:47	103727
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
1,1,2,2-Tetrachloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
1,1,2-Trichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
1,1-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
1,1-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
1,2-Dichloroethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
1,2-Dichloropropane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
1,3-Dichloropropene, Total		0.0009	0.003		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
2-Butanone	NELAP	0.0085	0.043	J	0.016	mg/Kg-dry	1	11/07/2014 17:32	103745
2-Hexanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
4-Methyl-2-pentanone	NELAP	0.0085	0.043		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Acetone	NELAP	0.0085	0.043		0.043	mg/Kg-dry	1	11/07/2014 17:32	103745
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	11/07/2014 17:32	103745
Bromodichloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-007

Client Sample ID: 2819-2-B06-2

Matrix: SOLID

Collection Date: 11/06/2014 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromoform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Bromomethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Carbon disulfide	NELAP	0.0026	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Carbon tetrachloride	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Chlorobenzene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Chloroethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Chloroform	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Chloromethane	NELAP	0.0017	0.009		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
cis-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
cis-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Dibromochloromethane	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Ethylbenzene	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 17:32	103745
m,p-Xylenes	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 17:32	103745
Methyl tert-butyl ether	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Methylene chloride	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 17:32	103745
o-Xylene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Styrene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Tetrachloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Toluene	NELAP	0.0009	0.004	J	0.003	mg/Kg-dry	1	11/07/2014 17:32	103745
trans-1,2-Dichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
trans-1,3-Dichloropropene	NELAP	0.0009	0.003		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Trichloroethene	NELAP	0.0009	0.004		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Vinyl acetate	NELAP	0.017	0.043		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Vinyl chloride	NELAP	0.0004	0.002		ND	mg/Kg-dry	1	11/07/2014 17:32	103745
Xylenes, Total	NELAP	0.0009	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 17:32	103745
Surr: 1,2-Dichloroethane-d4		0	72.2-131		116.7	%REC	1	11/07/2014 17:32	103745
Surr: 4-Bromofluorobenzene		0	82.1-116		104.1	%REC	1	11/07/2014 17:32	103745
Surr: Dibromofluoromethane		0	77.7-120		105	%REC	1	11/07/2014 17:32	103745
Surr: Toluene-d8		0	86-116		95.4	%REC	1	11/07/2014 17:32	103745

Allowable Marginal Exceedance of Tetrachloroethene in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: Jc07 2013-074 Project No.: WD 074 - Sugar Grove TAT: <input type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input checked="" type="checkbox"/> Other Sampler: SR	COC No.: 1 of 1 Lab Job No.: 14110426 Sample Temp: 3.02°C ice Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
ANALYSES																
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.																
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
14110426-01	2819-2-801	11/6/14	10:30	Soil	X	X					X	X	X	X		0-5
102	2819-2-802		10:40													
103	2819-2-803		10:50													
104	2819-2-804		10:00													
105	2819-2-805		11:10													
106	2819-2-806-1		11:20													
107	2819-2-806-2		11:30													
108	2819-2-804-2		11:40													
109	2819-2-804-2 DUP		11:50													
Relinquished by: <i>[Signature]</i>					Date/Time											
Relinquished by: <i>[Signature]</i>					11/6/14	2:45pm	Received by: <i>[Signature]</i>									
Relinquished by: <i>[Signature]</i>					11/6/14	1:50	Received by: <i>[Signature]</i>									
Relinquished by: <i>[Signature]</i>							Received by: <i>[Signature]</i>									



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

80 Dugan Road (Northwest Quadrant of Dugan Road and Airpark Drive)

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Big Rock

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

Latitude: 41.76554 Longitude: -88.48923
(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: FAP 573 (US 30)

Latitude: 41.76554 Longitude: -88.48923

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 2819-8-B02 WAS SAMPLED ADJACENT TO ISGS SITE 2819-8. SEE FIGURE 4 AND TABLE 3b OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77578-1

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: IDOT Bureau of Design and Environment

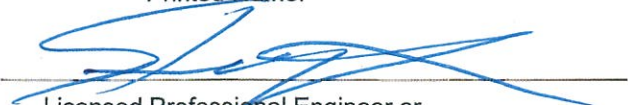
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/24/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

**ISGS Site 2819-8
Commercial Building**

Sample ID	2819-8-B02	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-2						
Sample Date	5/22/2014						
PID	0						
Sample pH	7.54						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77578-1
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 3:56:48 PM

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

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-1

Client Sample ID: 2819-8-B02

Lab Sample ID: 500-77578-2

Date Collected: 05/22/14 09:15

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 77.3

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	☼	05/22/14 09:15	05/30/14 15:21	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/22/14 09:15	05/30/14 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	05/22/14 09:15	05/30/14 15:21	1
Dibromofluoromethane	115		75 - 120	05/22/14 09:15	05/30/14 15:21	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	05/22/14 09:15	05/30/14 15:21	1
Toluene-d8 (Surr)	98		75 - 122	05/22/14 09:15	05/30/14 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.091	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-1

Client Sample ID: 2819-8-B02

Lab Sample ID: 500-77578-2

Date Collected: 05/22/14 09:15

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 77.3

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	0.049	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2,4-Dinitrophenol	<0.82	*	0.82	0.72	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
4,6-Dinitro-2-methylphenol	<0.40	*	0.40	0.33	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Fluoranthene	0.0089	J	0.040	0.0076	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Pyrene	0.011	J	0.040	0.0081	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-1

Client Sample ID: 2819-8-B02

Lab Sample ID: 500-77578-2

Date Collected: 05/22/14 09:15

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 77.3

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	☼	06/04/14 18:45	06/05/14 17:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	06/04/14 18:45	06/05/14 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	06/04/14 18:45	06/05/14 17:21	1
Phenol-d5	48		31 - 110	06/04/14 18:45	06/05/14 17:21	1
Nitrobenzene-d5	47		25 - 115	06/04/14 18:45	06/05/14 17:21	1
2-Fluorobiphenyl	48		25 - 119	06/04/14 18:45	06/05/14 17:21	1
2,4,6-Tribromophenol	28 X		35 - 137	06/04/14 18:45	06/05/14 17:21	1
Terphenyl-d14	88		36 - 134	06/04/14 18:45	06/05/14 17:21	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	☼	06/04/14 08:30	06/05/14 07:13	1
Arsenic	5.1		0.60	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Barium	130		0.60	0.064	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Beryllium	0.61		0.24	0.048	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Boron	1.8 J		3.0	0.60	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Cadmium	0.19		0.12	0.015	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Calcium	2500		12	3.3	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Chromium	15		0.60	0.070	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Cobalt	7.1		0.30	0.060	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Copper	19		0.60	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Iron	16000		12	4.9	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Lead	10 B		0.30	0.089	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Magnesium	2900		6.0	1.2	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Manganese	520		0.60	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Nickel	28		0.60	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Potassium	740		30	1.8	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Selenium	0.51 J		0.60	0.21	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Sodium	590		60	8.0	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Thallium	1.3		0.60	0.25	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Vanadium	23		0.30	0.044	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1
Zinc	39		1.2	0.24	mg/Kg	☼	06/04/14 08:30	06/05/14 07:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/16/14 11:00	06/16/14 20:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 11:00	06/16/14 20:37	1
Manganese	0.012 J B		0.025	0.010	mg/L		06/16/14 11:00	06/16/14 20:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-1

Client Sample ID: 2819-8-B02

Lab Sample ID: 500-77578-2

Date Collected: 05/22/14 09:15

Matrix: Solid

Date Received: 05/23/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 14:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 14:22	1
Boron	1.1		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 14:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/07/14 11:00	06/09/14 14:22	1
Chromium	0.061		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:22	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:22	1
Iron	52		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 14:22	1
Lead	0.031		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 14:22	1
Manganese	0.21		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:22	1
Nickel	0.052		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:22	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 14:22	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:22	1
Zinc	0.17		0.10	0.020	mg/L		06/07/14 11:00	06/09/14 14:22	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		06/07/14 11:00	06/09/14 14:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.00010	mg/L		06/09/14 11:35	06/10/14 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.021	0.0081	mg/Kg	✱	06/02/14 15:30	06/03/14 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54		0.200	0.200	SU			06/09/14 14:05	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-1

Qualifiers

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.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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



500-77578 COC

REWS
ERING INC

CHAIN OF CUSTODY RECORD

Client: Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact: Colleen Grey
email: cgrey@andrews-eng.com

Laboratory: Lab: Test America - Chicago
Address: 2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200
Contact: Dick Wright
email: richard.wright@lestiamerica.com

Project Name: US 30 Sugar Grove Kansas of 1
Project No.: 1DOT2013-074
TAT: 15 BD 10 BD 5 BD 2 BD Other

Lab Job No.: 500-77578
Sample Temp: (33) (27)
Sampler: CF/cm

COC No.: _____ of _____

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.

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											Date/Time		
					VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization		Comments	
1	2819-8-B01	5/22	9:10	S	X	X					X	X	X	X	X			5/23/14 1230
2	2819-8-B02	"	9:15	S	X	X						X	X	X	X			5/23/14 1230
Relinquished by: [Signature]					Received by: [Signature]											Date/Time: 5/23/14 1230		
Relinquished by: [Signature]					Received by: [Signature]											Date/Time: 5/23/14 1230		
Relinquished by: [Signature]					Received by: [Signature]											Date/Time: 5/23/14 1230		



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1000 block of Airpark Drive (Southwest corner of Dugan Road and Airpark Drive)

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Big Rock

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

Latitude: 41.76392 Longitude: -88.48932
(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: FAP 573 (US 30)

Latitude: 41.76392 Longitude: -88.48932

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 2819-9-B03 THROUGH -B05 WERE SAMPLED ADJACENT TO ISGS SITE 2819-9. SEE FIGURES 2 AND 4 AND TABLE 3c OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77578-2 AND TEKLAB ANALYTICAL WORK ORDER ID: 14110426

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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

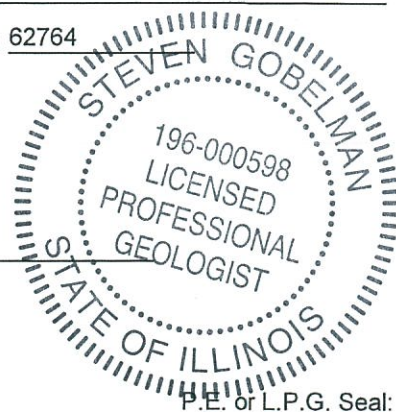
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/24/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-9

Vacant Lot

Sample ID	2819-9-B03	2819-9-B04	2819-9-B04-2	2819-9-B04-2 DUP	2819-9-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	4-13	4-13	0-4						
Sample Date	5/22/2014	5/22/2014	11/6/2014	11/6/2014	5/22/2014						
PID	0	0	0	0	0						
Sample pH	7.48	7.7	8.45	8.08	8.22						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77578-2
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 3:57:49 PM

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

LINKS

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results through
TotalAccess

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Visit us at:
www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B03

Lab Sample ID: 500-77578-6

Date Collected: 05/22/14 09:50

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.4

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	☼	05/22/14 09:50	05/30/14 16:56	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	05/22/14 09:50	05/30/14 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	05/22/14 09:50	05/30/14 16:56	1
Dibromofluoromethane	107		75 - 120	05/22/14 09:50	05/30/14 16:56	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	05/22/14 09:50	05/30/14 16:56	1
Toluene-d8 (Surr)	100		75 - 122	05/22/14 09:50	05/30/14 16:56	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	☼	06/04/14 18:45	06/05/14 18:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B03

Lab Sample ID: 500-77578-6

Date Collected: 05/22/14 09:50

Matrix: Solid

Date Received: 05/23/14 12:20

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	<0.21		0.21	0.049	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2,4-Dinitrophenol	<0.83	*	0.83	0.72	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
4,6-Dinitro-2-methylphenol	<0.41	*	0.41	0.33	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B03

Lab Sample ID: 500-77578-6

Date Collected: 05/22/14 09:50

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	06/04/14 18:45	06/05/14 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		25 - 110				06/04/14 18:45	06/05/14 18:43	1
Phenol-d5	35		31 - 110				06/04/14 18:45	06/05/14 18:43	1
Nitrobenzene-d5	35		25 - 115				06/04/14 18:45	06/05/14 18:43	1
2-Fluorobiphenyl	35		25 - 119				06/04/14 18:45	06/05/14 18:43	1
2,4,6-Tribromophenol	20	X	35 - 137				06/04/14 18:45	06/05/14 18:43	1
Terphenyl-d14	97		36 - 134				06/04/14 18:45	06/05/14 18:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.2	0.47	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Arsenic	8.5		0.58	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Barium	120		0.58	0.062	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Beryllium	0.71		0.23	0.047	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Boron	1.9	J	2.9	0.58	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Cadmium	0.15		0.12	0.015	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Calcium	2400		12	3.2	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Chromium	18		0.58	0.068	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Cobalt	6.5		0.29	0.058	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Copper	21		0.58	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Iron	21000		12	4.8	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Lead	10	B	0.29	0.087	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Magnesium	3600		5.8	1.2	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Manganese	430		0.58	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Nickel	19		0.58	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Potassium	860		29	1.8	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Selenium	0.82		0.58	0.21	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Sodium	110		58	7.8	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Thallium	1.2		0.58	0.25	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Vanadium	28		0.29	0.043	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1
Zinc	44		1.2	0.24	mg/Kg	☼	06/04/14 08:30	06/05/14 07:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 14:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 14:38	1
Boron	1.1		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 14:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B03

Lab Sample ID: 500-77578-6

Date Collected: 05/22/14 09:50

Matrix: Solid

Date Received: 05/23/14 12:20

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		06/07/14 11:00	06/09/14 14:38	1
Chromium	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:38	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:38	1
Iron	2.2		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 14:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 14:38	1
Manganese	0.010	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:38	1
Nickel	0.018	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:38	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 14:38	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:38	1
Zinc	0.045	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/07/14 11:00	06/09/14 14:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 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		06/09/14 11:35	06/10/14 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0075	mg/Kg	☆	06/02/14 15:30	06/03/14 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.48		0.200	0.200	SU			06/09/14 14:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B04

Lab Sample ID: 500-77578-7

Date Collected: 05/22/14 09:40

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.1

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	☼	05/22/14 09:40	05/30/14 17:19	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	05/22/14 09:40	05/30/14 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	05/22/14 09:40	05/30/14 17:19	1
Dibromofluoromethane	117		75 - 120	05/22/14 09:40	05/30/14 17:19	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	05/22/14 09:40	05/30/14 17:19	1
Toluene-d8 (Surr)	96		75 - 122	05/22/14 09:40	05/30/14 17:19	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	☼	06/04/14 18:45	06/05/14 19:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B04

Lab Sample ID: 500-77578-7

Date Collected: 05/22/14 09:40

Matrix: Solid

Date Received: 05/23/14 12:20

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	☼	06/04/14 18:45	06/05/14 19:03	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
4,6-Dinitro-2-methylphenol	<0.40	*	0.40	0.32	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B04

Lab Sample ID: 500-77578-7

Date Collected: 05/22/14 09:40

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	06/04/14 18:45	06/05/14 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	06/04/14 18:45	06/05/14 19:03	1
Phenol-d5	58		31 - 110	06/04/14 18:45	06/05/14 19:03	1
Nitrobenzene-d5	59		25 - 115	06/04/14 18:45	06/05/14 19:03	1
2-Fluorobiphenyl	59		25 - 119	06/04/14 18:45	06/05/14 19:03	1
2,4,6-Tribromophenol	20	X	35 - 137	06/04/14 18:45	06/05/14 19:03	1
Terphenyl-d14	130		36 - 134	06/04/14 18:45	06/05/14 19:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Arsenic	5.1		0.61	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Barium	110		0.61	0.065	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Beryllium	0.62		0.24	0.049	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Boron	2.0	J	3.0	0.61	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Cadmium	0.18		0.12	0.015	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Calcium	5300		12	3.3	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Chromium	16		0.61	0.070	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Cobalt	6.1		0.30	0.061	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Copper	19		0.61	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Iron	19000		12	5.0	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Lead	9.2	B	0.30	0.090	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Magnesium	4900		6.1	1.3	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Manganese	630		0.61	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Nickel	23		0.61	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Potassium	780		30	1.8	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Selenium	0.46	J	0.61	0.22	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Sodium	210		61	8.1	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Thallium	1.6		0.61	0.26	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Vanadium	23		0.30	0.045	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	1
Zinc	40		1.2	0.25	mg/Kg	☼	06/04/14 08:30	06/05/14 07:49	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		06/16/14 11:00	06/16/14 20:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B04

Lab Sample ID: 500-77578-7

Date Collected: 05/22/14 09:40

Matrix: Solid

Date Received: 05/23/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 14:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 14:42	1
Boron	1.1		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 14:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/07/14 11:00	06/09/14 14:42	1
Chromium	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:42	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:42	1
Iron	3.3		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 14:42	1
Lead	0.011		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 14:42	1
Manganese	0.019	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:42	1
Nickel	0.011	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:42	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 14:42	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:42	1
Zinc	0.059	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 14:42	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		06/07/14 11:00	06/09/14 15:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 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		06/09/14 11:35	06/10/14 13:55	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	0.025		0.020	0.0077	mg/Kg	✱	06/02/14 15:30	06/03/14 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			06/09/14 14:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B05

Lab Sample ID: 500-77578-8

Date Collected: 05/22/14 09:30

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0018	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Benzene	<0.0043		0.0043	0.00058	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00070	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00076	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	05/22/14 09:30	05/30/14 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	05/22/14 09:30	05/30/14 17:42	1
Dibromofluoromethane	110		75 - 120	05/22/14 09:30	05/30/14 17:42	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	05/22/14 09:30	05/30/14 17:42	1
Toluene-d8 (Surr)	97		75 - 122	05/22/14 09:30	05/30/14 17:42	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	☼	06/04/14 18:45	06/05/14 19:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B05

Lab Sample ID: 500-77578-8

Date Collected: 05/22/14 09:30

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 84.0

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	☼	06/04/14 18:45	06/05/14 19:24	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.31	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Anthracene	0.0068	J	0.038	0.0064	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Fluoranthene	0.061		0.038	0.0071	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Pyrene	0.13		0.038	0.0076	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Benzo[a]anthracene	0.029	J	0.038	0.0051	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B05

Lab Sample ID: 500-77578-8

Date Collected: 05/22/14 09:30

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.028	J	0.038	0.010	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Benzo[b]fluoranthene	0.057		0.038	0.0082	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	06/04/14 18:45	06/05/14 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		25 - 110				06/04/14 18:45	06/05/14 19:24	1
Phenol-d5	62		31 - 110				06/04/14 18:45	06/05/14 19:24	1
Nitrobenzene-d5	61		25 - 115				06/04/14 18:45	06/05/14 19:24	1
2-Fluorobiphenyl	62		25 - 119				06/04/14 18:45	06/05/14 19:24	1
2,4,6-Tribromophenol	32	X	35 - 137				06/04/14 18:45	06/05/14 19:24	1
Terphenyl-d14	173	X	36 - 134				06/04/14 18:45	06/05/14 19:24	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	☼	06/04/14 08:30	06/05/14 08:10	1
Arsenic	5.6		0.58	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Barium	71		0.58	0.062	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Beryllium	0.40		0.23	0.046	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Boron	3.0		2.9	0.58	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Cadmium	0.20		0.12	0.015	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Calcium	31000		12	3.1	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Chromium	10		0.58	0.067	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Cobalt	5.5		0.29	0.058	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Copper	12		0.58	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Iron	12000		12	4.7	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Lead	7.5	B	0.29	0.086	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Magnesium	20000		5.8	1.2	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Manganese	380		0.58	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Nickel	12		0.58	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Potassium	770		29	1.7	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Sodium	110		58	7.7	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Thallium	0.85		0.58	0.24	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Vanadium	19		0.29	0.043	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1
Zinc	29		1.2	0.23	mg/Kg	☼	06/04/14 08:30	06/05/14 08:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22		0.20	0.20	mg/L		06/16/14 11:00	06/16/14 21:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 11:00	06/16/14 21:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Client Sample ID: 2819-9-B05

Lab Sample ID: 500-77578-8

Date Collected: 05/22/14 09:30

Matrix: Solid

Date Received: 05/23/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 14:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 14:46	1
Boron	1.3		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 14:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/07/14 11:00	06/09/14 14:46	1
Chromium	0.018	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:46	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:46	1
Iron	12		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 14:46	1
Lead	0.016		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 14:46	1
Manganese	0.065		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:46	1
Nickel	0.015	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:46	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 14:46	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:46	1
Zinc	0.092	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/07/14 11:00	06/09/14 15:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/09/14 11:35	06/10/14 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0074	mg/Kg	✱	06/02/14 15:30	06/03/14 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			06/09/14 14:21	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	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.
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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>US30 Superfund Kame Co</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: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericalinc.com	Project No.: <u>IDOT 2013-074</u>	Lab Job No.: <u>500-77578</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/cm</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.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																								
3	2819-9-B01	5/22	10:05	S	X	X					X	X	X	X																										
4	2819-9-B01 DUP		10:10	S	X	X					X	X	X	X																										
5	2819-9-B02		10:00	S	X	X					X	X	X	X																										
6	2819-9-B03		9:50	S	X	X					X	X	X	X																										
7	2819-9-B04		9:40	S	X	X					X	X	X	X																										
8	2819-9-B05		9:30	S	X	X					X	X	X	X																										
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Relinquished by:</td> <td style="width: 15%;"></td> <td style="width: 15%;">Date/Time:</td> <td style="width: 15%;">5/22/14</td> <td style="width: 15%;">Received by:</td> <td style="width: 15%;"></td> <td style="width: 15%;">Date/Time:</td> <td style="width: 15%;">5/22/14 1:50</td> </tr> <tr> <td>Relinquished by:</td> <td></td> <td>Date/Time:</td> <td>5/23/14 9:00AM</td> <td>Received by:</td> <td></td> <td>Date/Time:</td> <td>5/23/14 9:10</td> </tr> <tr> <td>Relinquished by:</td> <td></td> <td>Date/Time:</td> <td>5/23/14/12:25</td> <td>Received by:</td> <td></td> <td>Date/Time:</td> <td>5/23/14 12:20</td> </tr> </table>																	Relinquished by:		Date/Time:	5/22/14	Received by:		Date/Time:	5/22/14 1:50	Relinquished by:		Date/Time:	5/23/14 9:00AM	Received by:		Date/Time:	5/23/14 9:10	Relinquished by:		Date/Time:	5/23/14/12:25	Received by:		Date/Time:	5/23/14 12:20
Relinquished by:		Date/Time:	5/22/14	Received by:		Date/Time:	5/22/14 1:50																																	
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Relinquished by:		Date/Time:	5/23/14/12:25	Received by:		Date/Time:	5/23/14 12:20																																	

November 14, 2014

Colleen Grey
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711-7233
TEL: (217) 787-2334
FAX: (217) 787-9495



RE: IDOT2013-074

WorkOrder: 14110426

Dear Colleen Grey:

TEKLAB, INC received 9 samples on 11/7/2014 8:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	41
Receiving Check List	66
Chain of Custody	Appended

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Cooler Receipt Temp: 3.02 °C

Locations and Accreditations

	Collinsville	Springfield	Kansas City	Collinsville Air
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
Fax	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
Email	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2015	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2015	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2015	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2015	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2015	Collinsville
Arkansas	ADEQ	88-0966		3/14/2015	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	KDEP	98006		12/31/2014	Collinsville
Kentucky	UST	0073		1/31/2015	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2015	Collinsville

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-008

Client Sample ID: 2819-9-B04-2

Matrix: SOLID

Collection Date: 11/06/2014 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		10.5	%	1	11/07/2014 18:35	R197469
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		89.5	%	1	11/07/2014 18:35	R197469
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.45		1	11/11/2014 18:44	R197563
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Iron	NELAP	0.007	0.02		< 0.02	mg/L	1	11/12/2014 14:22	103854
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0052	0.0055		0.0368	mg/L	1	11/11/2014 11:13	103795
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	11/11/2014 11:13	103795
Boron	NELAP	1	2		< 2	mg/L	1	11/11/2014 11:13	103795
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	11/11/2014 11:13	103795
Chromium	NELAP	0.004	0.01	J	0.0058	mg/L	1	11/11/2014 11:13	103795
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	11/11/2014 11:13	103795
Iron	NELAP	0.007	0.02	X	6.23	mg/L	1	11/11/2014 11:13	103795
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	11/11/2014 11:13	103795
Manganese	NELAP	0.0016	0.005		0.0292	mg/L	1	11/11/2014 11:13	103795
Nickel	NELAP	0.0033	0.01	J	0.0048	mg/L	1	11/11/2014 11:13	103795
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	11/11/2014 11:13	103795
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	11/11/2014 11:13	103795
Zinc	NELAP	0.0021	0.01		0.0274	mg/L	1	11/11/2014 11:13	103795
SW-846 1312, 3005A, 6020A, METALS IN SPLP EXTRACT BY ICPMS									
Antimony	NELAP	0.0002	0.001		< 0.001	mg/L	5	11/11/2014 14:36	103796
Thallium	NELAP	0.0002	0.001	J	0.0003	mg/L	5	11/11/2014 14:36	103796
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	11/11/2014 10:26	103801
SW-846 3050B, 6010B, METALS BY ICP									
Antimony	NELAP	1.44	4.81		< 4.81	mg/Kg-dry	1	11/10/2014 17:41	103751
Arsenic	NELAP	0.96	2.4		5.08	mg/Kg-dry	1	11/10/2014 16:56	103749
Barium	NELAP	0.1	0.24		32.7	mg/Kg-dry	1	11/10/2014 16:56	103749
Beryllium	NELAP	0.03	0.05		0.27	mg/Kg-dry	1	11/10/2014 16:56	103749
Boron	NELAP	0.48	1.92		7.3	mg/Kg-dry	1	11/10/2014 16:56	103749
Cadmium	NELAP	0.05	0.19	J	0.05	mg/Kg-dry	1	11/10/2014 16:56	103749
Calcium	NELAP	2.4	4.81		93100	mg/Kg-dry	1	11/10/2014 16:56	103749
Chromium	NELAP	0.1	0.48		8.48	mg/Kg-dry	1	11/10/2014 16:56	103749
Cobalt	NELAP	0.14	0.48		3.55	mg/Kg-dry	1	11/10/2014 16:56	103749
Copper	NELAP	0.14	0.48		10.1	mg/Kg-dry	1	11/10/2014 16:56	103749
Iron	NELAP	0.96	1.92		11600	mg/Kg-dry	1	11/10/2014 16:56	103749
Lead	NELAP	0.48	1.44		5.1	mg/Kg-dry	1	11/10/2014 16:56	103749
Magnesium	NELAP	0.38	4.81		53200	mg/Kg-dry	1	11/10/2014 16:56	103749
Manganese	NELAP	0.07	0.29		259	mg/Kg-dry	1	11/10/2014 16:56	103749
Nickel	NELAP	0.19	0.48		9.22	mg/Kg-dry	1	11/10/2014 16:56	103749
Potassium	NELAP	2.88	9.62		963	mg/Kg-dry	1	11/10/2014 16:56	103749
Silver	NELAP	0.14	0.48		< 0.48	mg/Kg-dry	1	11/10/2014 16:56	103749
Sodium	NELAP	1.92	4.81		677	mg/Kg-dry	1	11/10/2014 16:56	103749
Thallium	NELAP	1.44	2.5		< 2.5	mg/Kg-dry	1	11/10/2014 16:56	103749

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-008

Client Sample ID: 2819-9-B04-2

Matrix: SOLID

Collection Date: 11/06/2014 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6010B, METALS BY ICP									
Vanadium	NELAP	0.19	0.96		13.8	mg/Kg-dry	1	11/10/2014 16:56	103749
Zinc	NELAP	0.38	0.96	B	31.8	mg/Kg-dry	1	11/10/2014 16:56	103749
<i>Sample result(s) for Zn exceed 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).</i>									
SW-846 3050B, 6020A, METALS BY ICPMS									
Selenium	NELAP	0.38	0.96		< 0.96	mg/Kg-dry	10	11/10/2014 21:55	103750
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.009	mg/Kg-dry	1	11/10/2014 9:57	103771
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.147	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
1,2-Dichlorobenzene	NELAP	0.176	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
1,3-Dichlorobenzene	NELAP	0.186	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
1,4-Dichlorobenzene	NELAP	0.176	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2,4,5-Trichlorophenol	NELAP	0.105	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2,4,6-Trichlorophenol	NELAP	0.139	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2,4-Dichlorophenol	NELAP	0.134	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2,4-Dimethylphenol	NELAP	0.14	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2,4-Dinitrophenol	NELAP	0.118	1.11		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2,4-Dinitrotoluene	NELAP	0.115	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2,6-Dinitrotoluene	NELAP	0.119	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2-Chloronaphthalene	NELAP	0.133	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2-Chlorophenol	NELAP	0.14	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2-Methylnaphthalene	NELAP	0.132	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2-Nitroaniline	NELAP	0.101	1.11		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
2-Nitrophenol	NELAP	0.124	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
3,3'-Dichlorobenzidine	NELAP	0.221	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
3-Nitroaniline	NELAP	0.091	1.11		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
4,6-Dinitro-2-methylphenol	NELAP	0.119	1.11		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
4-Bromophenyl phenyl ether	NELAP	0.102	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
4-Chloro-3-methylphenol	NELAP	0.122	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
4-Chloroaniline	NELAP	0.134	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
4-Chlorophenyl phenyl ether	NELAP	0.109	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
4-Nitroaniline	NELAP	0.101	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
4-Nitrophenol	NELAP	0.108	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Acenaphthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Acenaphthylene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Benzo(a)anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Benzo(a)pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Benzo(b)fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Benzo(g,h,i)perylene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Benzo(k)fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Bis(2-chloroethoxy)methane	NELAP	0.129	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Bis(2-chloroethyl)ether	NELAP	0.157	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Bis(2-chloroisopropyl)ether	NELAP	0.126	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Bis(2-ethylhexyl)phthalate	NELAP	0.129	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Butyl benzyl phthalate	NELAP	0.112	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Carbazole		0.135	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-008

Client Sample ID: 2819-9-B04-2

Matrix: SOLID

Collection Date: 11/06/2014 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chrysene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Dibenzo(a,h)anthracene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Dibenzofuran	NELAP	0.139	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Diethyl phthalate	NELAP	0.106	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Dimethyl phthalate	NELAP	0.101	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Di-n-butyl phthalate	NELAP	0.114	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Di-n-octyl phthalate	NELAP	0.115	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Fluoranthene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Fluorene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Hexachlorobenzene	NELAP	0.185	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Hexachlorobutadiene	NELAP	0.171	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Hexachlorocyclopentadiene	NELAP	0.113	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Hexachloroethane	NELAP	0.185	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Indeno(1,2,3-cd)pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Isophorone	NELAP	0.13	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
m,p-Cresol	NELAP	0.139	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Naphthalene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Nitrobenzene	NELAP	0.138	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
N-Nitroso-di-n-propylamine	NELAP	0.122	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
N-Nitrosodiphenylamine	NELAP	0.102	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
o-Cresol	NELAP	0.13	0.553		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Pentachlorophenol	NELAP	0.73	2.21		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Phenanthrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Phenol	NELAP	0.128	0.387		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Pyrene	NELAP	0.018	0.038		ND	mg/Kg-dry	1	11/10/2014 13:17	103727
Surr: 2,4,6-Tribromophenol		0	19.9-112		70.5	%REC	1	11/10/2014 13:17	103727
Surr: 2-Fluorobiphenyl		0	29.1-86.5		68.3	%REC	1	11/10/2014 13:17	103727
Surr: 2-Fluorophenol		0	30.5-94.1		60.6	%REC	1	11/10/2014 13:17	103727
Surr: Nitrobenzene-d5		0	26.6-79.4		63.5	%REC	1	11/10/2014 13:17	103727
Surr: Phenol-d5		0	36.1-100		64.7	%REC	1	11/10/2014 13:17	103727
Surr: p-Terphenyl-d14		0	40.2-101		81	%REC	1	11/10/2014 13:17	103727
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
1,1,1,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
2-Butanone	NELAP	0.0071	0.036		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
2-Hexanone	NELAP	0.0071	0.036		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
4-Methyl-2-pentanone	NELAP	0.0071	0.036		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Acetone	NELAP	0.0071	0.036	J	0.023	mg/Kg-dry	1	11/07/2014 17:58	103745
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	11/07/2014 17:58	103745
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-008

Client Sample ID: 2819-9-B04-2

Matrix: SOLID

Collection Date: 11/06/2014 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Carbon disulfide	NELAP	0.0021	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Ethylbenzene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 17:58	103745
m,p-Xylenes	NELAP	0.0007	0.004	J	0.002	mg/Kg-dry	1	11/07/2014 17:58	103745
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
o-Xylene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 17:58	103745
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Toluene	NELAP	0.0007	0.004		0.004	mg/Kg-dry	1	11/07/2014 17:58	103745
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Vinyl acetate	NELAP	0.0143	0.036		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	11/07/2014 17:58	103745
Xylenes, Total	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	11/07/2014 17:58	103745
Surr: 1,2-Dichloroethane-d4		0	72.2-131		116.9	%REC	1	11/07/2014 17:58	103745
Surr: 4-Bromofluorobenzene		0	82.1-116		104.1	%REC	1	11/07/2014 17:58	103745
Surr: Dibromofluoromethane		0	77.7-120		104.8	%REC	1	11/07/2014 17:58	103745
Surr: Toluene-d8		0	86-116		94.7	%REC	1	11/07/2014 17:58	103745

Allowable Marginal Exceedance of Tetrachloroethene in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-009

Client Sample ID: 2819-9-B04-2 DUP

Matrix: SOLID

Collection Date: 11/06/2014 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974									
Percent Moisture		0.1	0.1		11.1	%	1	11/07/2014 18:36	R197469
STANDARD METHODS 2540 G									
Total Solids		0.1	0.1		88.9	%	1	11/07/2014 18:36	R197469
SW-846 9045C									
pH (1:1)	NELAP	0	1		8.08		1	11/11/2014 18:48	R197563
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Barium	NELAP	0.0052	0.0055		0.0218	mg/L	1	11/11/2014 11:16	103795
Beryllium	NELAP	0.0003	0.001		< 0.001	mg/L	1	11/11/2014 11:16	103795
Boron	NELAP	1	2		< 2	mg/L	1	11/11/2014 11:16	103795
Cadmium	NELAP	0.0003	0.002		< 0.002	mg/L	1	11/11/2014 11:16	103795
Chromium	NELAP	0.004	0.01		< 0.01	mg/L	1	11/11/2014 11:16	103795
Cobalt	NELAP	0.0022	0.01		< 0.01	mg/L	1	11/11/2014 11:16	103795
Iron	NELAP	0.007	0.02		3.79	mg/L	1	11/11/2014 11:16	103795
Lead	NELAP	0.006	0.007		< 0.007	mg/L	1	11/11/2014 11:16	103795
Manganese	NELAP	0.0016	0.005		0.0165	mg/L	1	11/11/2014 11:16	103795
Nickel	NELAP	0.0033	0.01		< 0.01	mg/L	1	11/11/2014 11:16	103795
Selenium	NELAP	0.022	0.05		< 0.05	mg/L	1	11/11/2014 11:16	103795
Silver	NELAP	0.003	0.01		< 0.01	mg/L	1	11/11/2014 11:16	103795
Zinc	NELAP	0.0021	0.01		0.0192	mg/L	1	11/11/2014 11:16	103795
SW-846 1312, 3005A, 6020A, METALS IN SPLP EXTRACT BY ICPMS									
Antimony	NELAP	0.0002	0.001		< 0.001	mg/L	5	11/11/2014 14:43	103796
Thallium	NELAP	0.0002	0.001		< 0.001	mg/L	5	11/11/2014 14:43	103796
SW-846 1312, 7470A IN SPLP EXTRACT									
Mercury	NELAP	0.00005	0.0002		< 0.0002	mg/L	1	11/11/2014 10:28	103801
SW-846 3050B, 6010B, METALS BY ICP									
Antimony	NELAP	1.44	4.81		< 4.81	mg/Kg-dry	1	11/10/2014 17:47	103751
Arsenic	NELAP	0.93	2.31		3.94	mg/Kg-dry	1	11/10/2014 17:00	103749
Barium	NELAP	0.09	0.23		24.1	mg/Kg-dry	1	11/10/2014 17:00	103749
Beryllium	NELAP	0.03	0.05		0.22	mg/Kg-dry	1	11/10/2014 17:00	103749
Boron	NELAP	0.46	1.85		9.38	mg/Kg-dry	1	11/10/2014 17:00	103749
Cadmium	NELAP	0.05	0.19	J	0.06	mg/Kg-dry	1	11/10/2014 17:00	103749
Calcium	NELAP	2.31	4.63		108000	mg/Kg-dry	1	11/10/2014 17:00	103749
Chromium	NELAP	0.09	0.46		6.24	mg/Kg-dry	1	11/10/2014 17:00	103749
Cobalt	NELAP	0.14	0.46		3.38	mg/Kg-dry	1	11/10/2014 17:00	103749
Copper	NELAP	0.14	0.46		10.3	mg/Kg-dry	1	11/10/2014 17:00	103749
Iron	NELAP	0.93	1.85		9150	mg/Kg-dry	1	11/10/2014 17:00	103749
Lead	NELAP	0.46	1.39		3.68	mg/Kg-dry	1	11/10/2014 17:00	103749
Magnesium	NELAP	0.37	4.63		58500	mg/Kg-dry	1	11/10/2014 17:00	103749
Manganese	NELAP	0.06	0.28		270	mg/Kg-dry	1	11/10/2014 17:00	103749
Nickel	NELAP	0.19	0.46		7.8	mg/Kg-dry	1	11/10/2014 17:00	103749
Potassium	NELAP	2.78	9.26		997	mg/Kg-dry	1	11/10/2014 17:00	103749
Silver	NELAP	0.14	0.46		< 0.46	mg/Kg-dry	1	11/10/2014 17:00	103749
Sodium	NELAP	1.85	4.63		606	mg/Kg-dry	1	11/10/2014 17:00	103749
Thallium	NELAP	1.39	2.41		< 2.41	mg/Kg-dry	1	11/10/2014 17:00	103749
Vanadium	NELAP	0.19	0.93		10.9	mg/Kg-dry	1	11/10/2014 17:00	103749
Zinc	NELAP	0.37	0.93	B	23.3	mg/Kg-dry	1	11/10/2014 17:00	103749

Sample result(s) for Zn exceed 10 times the MBLK contamination. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.1).

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-009

Client Sample ID: 2819-9-B04-2 DUP

Matrix: SOLID

Collection Date: 11/06/2014 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3050B, 6020A, METALS BY ICPMS									
Selenium	NELAP	0.37	0.93		< 0.93	mg/Kg-dry	10	11/10/2014 22:05	103750
SW-846 7471B									
Mercury	NELAP	0.003	0.011	J	0.009	mg/Kg-dry	1	11/10/2014 10:00	103771
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,2,4-Trichlorobenzene	NELAP	0.149	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
1,2-Dichlorobenzene	NELAP	0.178	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
1,3-Dichlorobenzene	NELAP	0.188	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
1,4-Dichlorobenzene	NELAP	0.178	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2,4,5-Trichlorophenol	NELAP	0.106	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2,4,6-Trichlorophenol	NELAP	0.141	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2,4-Dichlorophenol	NELAP	0.135	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2,4-Dimethylphenol	NELAP	0.142	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2,4-Dinitrophenol	NELAP	0.12	1.12		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2,4-Dinitrotoluene	NELAP	0.116	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2,6-Dinitrotoluene	NELAP	0.121	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2-Chloronaphthalene	NELAP	0.134	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2-Chlorophenol	NELAP	0.142	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2-Methylnaphthalene	NELAP	0.133	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2-Nitroaniline	NELAP	0.102	1.12		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
2-Nitrophenol	NELAP	0.125	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
3,3'-Dichlorobenzidine	NELAP	0.224	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
3-Nitroaniline	NELAP	0.092	1.12		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
4,6-Dinitro-2-methylphenol	NELAP	0.121	1.12		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
4-Bromophenyl phenyl ether	NELAP	0.103	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
4-Chloro-3-methylphenol	NELAP	0.123	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
4-Chloroaniline	NELAP	0.135	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
4-Chlorophenyl phenyl ether	NELAP	0.111	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
4-Nitroaniline	NELAP	0.102	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
4-Nitrophenol	NELAP	0.11	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Acenaphthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Acenaphthylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Benzo(a)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Benzo(a)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Benzo(b)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Benzo(g,h,i)perylene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Benzo(k)fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Bis(2-chloroethoxy)methane	NELAP	0.131	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Bis(2-chloroethyl)ether	NELAP	0.159	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Bis(2-chloroisopropyl)ether	NELAP	0.127	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Bis(2-ethylhexyl)phthalate	NELAP	0.131	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Butyl benzyl phthalate	NELAP	0.113	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Carbazole		0.136	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Chrysene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Dibenzo(a,h)anthracene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Dibenzofuran	NELAP	0.141	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Diethyl phthalate	NELAP	0.107	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-009

Client Sample ID: 2819-9-B04-2 DUP

Matrix: SOLID

Collection Date: 11/06/2014 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Dimethyl phthalate	NELAP	0.102	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Di-n-butyl phthalate	NELAP	0.115	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Di-n-octyl phthalate	NELAP	0.116	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Fluoranthene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Fluorene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Hexachlorobenzene	NELAP	0.187	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Hexachlorobutadiene	NELAP	0.173	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Hexachlorocyclopentadiene	NELAP	0.114	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Hexachloroethane	NELAP	0.187	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Indeno(1,2,3-cd)pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Isophorone	NELAP	0.132	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
m,p-Cresol	NELAP	0.141	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Naphthalene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Nitrobenzene	NELAP	0.14	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
N-Nitroso-di-n-propylamine	NELAP	0.123	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
N-Nitrosodiphenylamine	NELAP	0.103	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
o-Cresol	NELAP	0.132	0.559		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Pentachlorophenol	NELAP	0.738	2.24		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Phenanthrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Phenol	NELAP	0.13	0.391		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Pyrene	NELAP	0.019	0.038		ND	mg/Kg-dry	1	11/10/2014 13:52	103727
Surr: 2,4,6-Tribromophenol		0	19.9-112		66.2	%REC	1	11/10/2014 13:52	103727
Surr: 2-Fluorobiphenyl		0	29.1-86.5		65.6	%REC	1	11/10/2014 13:52	103727
Surr: 2-Fluorophenol		0	30.5-94.1		60.3	%REC	1	11/10/2014 13:52	103727
Surr: Nitrobenzene-d5		0	26.6-79.4		62.4	%REC	1	11/10/2014 13:52	103727
Surr: Phenol-d5		0	36.1-100		63.4	%REC	1	11/10/2014 13:52	103727
Surr: p-Terphenyl-d14		0	40.2-101		76.6	%REC	1	11/10/2014 13:52	103727
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
1,1,2,2-Tetrachloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
1,1,2-Trichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
1,1-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
1,1-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
1,2-Dichloroethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
1,2-Dichloropropane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
1,3-Dichloropropene, Total		0.0007	0.003		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
2-Butanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
2-Hexanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
4-Methyl-2-pentanone	NELAP	0.007	0.035		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Acetone	NELAP	0.007	0.035	J	0.021	mg/Kg-dry	1	11/07/2014 18:24	103745
Benzene	NELAP	0.0004	0.001		0.002	mg/Kg-dry	1	11/07/2014 18:24	103745
Bromodichloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Bromoform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Bromomethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Carbon disulfide	NELAP	0.0021	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Carbon tetrachloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Chlorobenzene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745



Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 14110426

Client Project: IDOT2013-074

Report Date: 14-Nov-14

Lab ID: 14110426-009

Client Sample ID: 2819-9-B04-2 DUP

Matrix: SOLID

Collection Date: 11/06/2014 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Chloroform	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Chloromethane	NELAP	0.0014	0.007		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
cis-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
cis-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Dibromochloromethane	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Ethylbenzene	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 18:24	103745
m,p-Xylenes	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 18:24	103745
Methyl tert-butyl ether	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Methylene chloride	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
o-Xylene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Styrene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Tetrachloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Toluene	NELAP	0.0007	0.004	J	0.003	mg/Kg-dry	1	11/07/2014 18:24	103745
trans-1,2-Dichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
trans-1,3-Dichloropropene	NELAP	0.0007	0.003		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Trichloroethene	NELAP	0.0007	0.004		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Vinyl acetate	NELAP	0.0141	0.035		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Vinyl chloride	NELAP	0.0004	0.001		ND	mg/Kg-dry	1	11/07/2014 18:24	103745
Xylenes, Total	NELAP	0.0007	0.004	J	0.001	mg/Kg-dry	1	11/07/2014 18:24	103745
Surr: 1,2-Dichloroethane-d4		0	72.2-131		119.7	%REC	1	11/07/2014 18:24	103745
Surr: 4-Bromofluorobenzene		0	82.1-116		100.2	%REC	1	11/07/2014 18:24	103745
Surr: Dibromofluoromethane		0	77.7-120		105	%REC	1	11/07/2014 18:24	103745
Surr: Toluene-d8		0	86-116		92.6	%REC	1	11/07/2014 18:24	103745

Allowable Marginal Exceedance of Tetrachloroethene in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: jcbt 2013-074 Project No.: WD 074 - Sugar Grove TAT: <input type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input checked="" type="checkbox"/> Other Sampler: SR	COC No.: 1 of 1 Lab Job No.: 14110426 Sample Temp: 3.22°C ice Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
ANALYSES																
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.																
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
14110426-01	2819-2-801	11/6/14	10:30	Soil	X	X					X	X	X	X		0-5
102	2819-2-802		10:40													
103	2819-2-803		10:50													
104	2819-2-804		10:00													
105	2819-2-805		11:10													
106	2819-2-806-1		11:20													0-6
107	2819-2-806-2		11:30													6-12
108	2819-2-804-2		11:40													4-13'
109	2819-2-804-2 DUP		11:50													4-13'
Relinquished by: <i>[Signature]</i>					Date/Time: 11/6/14 2:45pm	Received by: <i>[Signature]</i>					Date/Time: 11-06-14 1545					
Relinquished by: <i>[Signature]</i>					Date/Time: 11-6-14 1:50	Received by: <i>[Signature]</i>					Date/Time: 11/7/14 8:28AM					
Relinquished by: <i>[Signature]</i>					Date/Time:	Received by: <i>[Signature]</i>					Date/Time:					



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

2000 block of Granart Road (Northwest corner of Granart Road and Dugan Road)

City: Sugar Grove State: IL Zip Code: 60511

County: Kane Township: Big Rock

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

Latitude: 41.76302 Longitude: -88.48928
(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

Project Name: FAP 573 (US 30)

Latitude: 41.76302 Longitude: -88.48928

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 2819-17-B01 WAS SAMPLED ADJACENT TO ISGS SITE 2819-17. SEE FIGURES 2 AND 3 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77279-1

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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

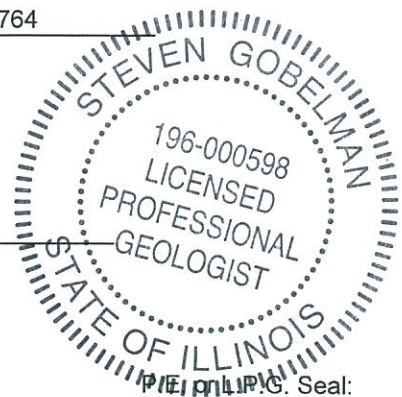
Steven Gobelman

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/24/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-17

Vacant Lot

Sample ID	2819-17-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)	0-2						
Sample Date	5/19/2014						
PID	0						
Sample pH	7.46						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-77279-1

Client Project/Site: IDOT - US 30 - WO 074

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:

6/6/2014 2:11:08 PM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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results through

TotalAccess

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www.testamericainc.com

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

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

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

1

2

3

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-1

Client Sample ID: 2819-17-B01

Lab Sample ID: 500-77279-1

Date Collected: 05/19/14 10:00

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.1

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	☼	05/20/14 15:00	05/21/14 12:23	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
1,2-Dichloroethane	<0.0046		0.0046	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/20/14 15:00	05/21/14 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	05/20/14 15:00	05/21/14 12:23	1
Dibromofluoromethane	116		75 - 120	05/20/14 15:00	05/21/14 12:23	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	05/20/14 15:00	05/21/14 12:23	1
Toluene-d8 (Surr)	102		75 - 122	05/20/14 15:00	05/21/14 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-1

Client Sample ID: 2819-17-B01

Lab Sample ID: 500-77279-1

Date Collected: 05/19/14 10:00

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.1

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	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.34	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-1

Client Sample ID: 2819-17-B01

Lab Sample ID: 500-77279-1

Date Collected: 05/19/14 10:00

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/30/14 07:16	06/02/14 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		25 - 110				05/30/14 07:16	06/02/14 12:36	1
Phenol-d5	38		31 - 110				05/30/14 07:16	06/02/14 12:36	1
Nitrobenzene-d5	33		25 - 115				05/30/14 07:16	06/02/14 12:36	1
2-Fluorobiphenyl	35		25 - 119				05/30/14 07:16	06/02/14 12:36	1
2,4,6-Tribromophenol	44		35 - 137				05/30/14 07:16	06/02/14 12:36	1
Terphenyl-d14	49		36 - 134				05/30/14 07:16	06/02/14 12:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.47	mg/Kg	☼	05/28/14 08:15	05/28/14 22:20	1
Arsenic	9.6		0.59	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Barium	140		0.59	0.063	mg/Kg	☼	05/28/14 08:15	05/28/14 22:20	1
Beryllium	0.73		0.23	0.047	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Boron	2.5	J	2.9	0.59	mg/Kg	☼	05/28/14 08:15	05/28/14 22:20	1
Cadmium	0.18		0.12	0.015	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Calcium	3000		12	3.2	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Chromium	19		0.59	0.068	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Cobalt	12		0.29	0.059	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Copper	21		0.59	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Iron	22000		12	4.8	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Lead	14	B	0.29	0.087	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Magnesium	3900		5.9	1.2	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Manganese	730		0.59	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Nickel	19		0.59	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Potassium	1100		29	1.8	mg/Kg	☼	05/28/14 08:15	05/28/14 22:20	1
Selenium	1.3		0.59	0.21	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/28/14 08:15	05/28/14 22:20	1
Sodium	210		59	7.9	mg/Kg	☼	05/28/14 08:15	05/28/14 22:20	1
Thallium	1.6		0.59	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Vanadium	32		0.29	0.043	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1
Zinc	50		1.2	0.24	mg/Kg	☼	05/28/14 08:15	05/29/14 15:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 17:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-1

Client Sample ID: 2819-17-B01

Lab Sample ID: 500-77279-1

Date Collected: 05/19/14 10:00

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 03:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 03:40	1
Boron	1.3		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 03:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 03:40	1
Chromium	0.016	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 03:40	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 03:40	1
Iron	8.7		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 03:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/14 07:00	05/29/14 03:40	1
Manganese	0.034		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 03:40	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 03:40	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 03:40	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 03:40	1
Zinc	0.069	J B	0.10	0.020	mg/L		05/28/14 07:00	05/29/14 03:40	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		05/28/14 07:00	05/28/14 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 16:41	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		05/28/14 17:15	05/29/14 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.0079	mg/Kg	✱	05/22/14 14:30	05/23/14 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.46		0.200	0.200	SU			05/23/14 14:34	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery 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.
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

Glossary

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



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

20 Dugan Road (East side of Dugan Road at Granart Road)

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76300 Longitude: -88.48894
(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

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

Project Name: FAP 573 (US 30)

Latitude: 41.76300 Longitude: -88.48894

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 2819-19-B02 WAS SAMPLED ADJACENT TO ISGS SITE 2819-19. SEE FIGURES 3 AND 4, 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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77279-3

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: IDOT 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:

11/28/17
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-19

A/I/S Satellite Communication

Sample ID	2819-19-B02		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)	0-3							
Sample Date	5/19/2014							
PID	0							
Sample pH	7.24							
Matrix	Soil							
Inorganic Compounds, Total (mg/kg)								
Arsenic	12	1,3	11.3	NA	11.3	NA	13	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: 500-77279-3
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:
6/6/2014 2:18:38 PM
Jodie Bracken, Project Management Assistant II
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Designee for
Richard Wright, Senior Project Manager
(708)534-5200
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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 - US 30 - WO 074

TestAmerica Job ID: 500-77279-3

Client Sample ID: 2819-19-B02

Lab Sample ID: 500-77279-8

Date Collected: 05/19/14 11:15

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 76.5

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	☼	05/20/14 15:00	05/21/14 15:04	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00066	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00066	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Styrene	<0.0051		0.0051	0.00066	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/20/14 15:00	05/21/14 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	05/20/14 15:00	05/21/14 15:04	1
Dibromofluoromethane	115		75 - 120	05/20/14 15:00	05/21/14 15:04	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	05/20/14 15:00	05/21/14 15:04	1
Toluene-d8 (Surr)	105		75 - 122	05/20/14 15:00	05/21/14 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.096	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-3

Client Sample ID: 2819-19-B02

Lab Sample ID: 500-77279-8

Date Collected: 05/19/14 11:15

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 76.5

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	0.051	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2-Methylnaphthalene	<0.043		0.043	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.35	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Fluoranthene	<0.043		0.043	0.0080	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Pyrene	<0.043		0.043	0.0085	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-3

Client Sample ID: 2819-19-B02

Lab Sample ID: 500-77279-8

Date Collected: 05/19/14 11:15

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Benzo[b]fluoranthene	<0.043		0.043	0.0093	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	05/30/14 07:16	06/02/14 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		25 - 110	05/30/14 07:16	06/02/14 15:15	1
Phenol-d5	44		31 - 110	05/30/14 07:16	06/02/14 15:15	1
Nitrobenzene-d5	34		25 - 115	05/30/14 07:16	06/02/14 15:15	1
2-Fluorobiphenyl	37		25 - 119	05/30/14 07:16	06/02/14 15:15	1
2,4,6-Tribromophenol	37		35 - 137	05/30/14 07:16	06/02/14 15:15	1
Terphenyl-d14	50		36 - 134	05/30/14 07:16	06/02/14 15:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	1.2	0.48	mg/Kg	☼	05/28/14 08:15	05/28/14 23:43	1
Arsenic	12		0.60	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Barium	140		0.60	0.064	mg/Kg	☼	05/28/14 08:15	05/28/14 23:43	1
Beryllium	0.75		0.24	0.048	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Boron	2.7	J	3.0	0.60	mg/Kg	☼	05/28/14 08:15	05/28/14 23:43	1
Cadmium	0.25		0.12	0.015	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Calcium	2500		12	3.3	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Chromium	22		0.60	0.070	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Cobalt	8.8		0.30	0.060	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Copper	21		0.60	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Iron	24000		12	4.9	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Lead	15	B	0.30	0.089	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Magnesium	3700		6.0	1.2	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Manganese	460		0.60	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Nickel	17		0.60	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Potassium	1100		30	1.8	mg/Kg	☼	05/28/14 08:15	05/28/14 23:43	1
Selenium	1.7		0.60	0.21	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/28/14 08:15	05/28/14 23:43	1
Sodium	740		60	8.0	mg/Kg	☼	05/28/14 08:15	05/28/14 23:43	1
Thallium	1.4		0.60	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Vanadium	41		0.30	0.044	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1
Zinc	47		1.2	0.24	mg/Kg	☼	05/28/14 08:15	05/29/14 17:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/04/14 09:15	06/04/14 18:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:15	06/04/14 18:03	1
Chromium	<0.025		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-3

Client Sample ID: 2819-19-B02

Lab Sample ID: 500-77279-8

Date Collected: 05/19/14 11:15

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.96		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:03	1
Manganese	0.035		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		05/28/14 07:00	05/29/14 04:58	1
Beryllium	0.0041		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 04:58	1
Boron	0.74		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 04:58	1
Cadmium	0.016		0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 04:58	1
Chromium	0.13		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 04:58	1
Cobalt	0.016	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 04:58	1
Iron	130		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 04:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 17:56	1
Manganese	0.32		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 04:58	1
Nickel	0.092		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 04:58	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 04:58	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 04:58	1
Zinc	0.048	J	0.10	0.020	mg/L		06/03/14 09:30	06/03/14 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		05/28/14 07:00	05/29/14 17:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00033		0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.021	0.0081	mg/Kg	☼	05/22/14 14:30	05/23/14 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.24		0.200	0.200	SU			05/23/14 14:45	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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.
^	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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

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Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 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: US 30 Super Shore KaneCo
 Project No.: IDOT 2013-074
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: CF/CA

COC No.: of
 Lab Job No.: 500-7729A
 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.

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										Date/Time					
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	Comments			
6	2819-19-B01	5/19	11:05	S	X	X					X	X	X	X	X			0-3		
7	2819-19-B01 DUP	↓	11:10	S	X	X					X	X	X	X	X			0-3		
8	2819-19-B02	↓	11:15	S	X	X					X	X	X	X	X			0-3		
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>														Date/Time
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>														Date/Time
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>														Date/Time



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1961 US 30 (Northeast corner of Dugan Road and US 30)

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76373 Longitude: -88.48854
(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: 0890855039 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: FAP 573 (US 30)

Latitude: 41.76373 Longitude: -88.48854

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 2819-33-B01 THROUGH -B13 WERE SAMPLED ADJACENT TO ISGS SITE 2819-33. SEE FIGURES 2, 4 AND 5 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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-77465-1 AND 500-77578-3

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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

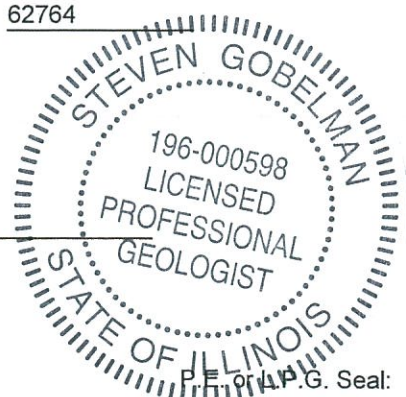
Printed Name:



 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/14

 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

**ISGS Site 2819-33
SCOT Industries**

Sample ID	2819-33-B01	2819-33-B02	2819-33-B03	2819-33-B04	2819-33-B05-1	2819-33-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)	0-4	0-4	0-4	0-4	0-8	8-14						
Sample Date	5/22/2014	5/22/2014	5/22/2014	5/22/2014	5/22/2014	5/22/2014						
PID	0	0	0	0	0	0						
Sample pH	7.55	7.63	7.74	7.4	8.05	8.58						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

Sample ID	2819-33-B06-1	2819-33-B06-2	2819-33-B07	2819-33-B08	2819-33-B09	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	8-14	0-4	0-4	0-4						
Sample Date	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014						
PID	0	0	0	0	0						
Sample pH	8.58	8.22	7.59	7.58	7.13						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

Sample ID	2819-33-B10	2819-33-B10 DUP	2819-33-B11	2819-33-B12	2819-33-B13	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	0-4	0-4	0-4						
Sample Date	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014						
PID	0	0	0	0	0						
Sample pH	7.88	8.02	7.38	7.55	7.89						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77465-1
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 9:05:46 AM

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

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B10 Dup

Lab Sample ID: 500-77465-1

Date Collected: 05/21/14 14:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.5

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	☼	05/22/14 17:45	05/29/14 23:57	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/22/14 17:45	05/29/14 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/22/14 17:45	05/29/14 23:57	1
Dibromofluoromethane	106		75 - 120	05/22/14 17:45	05/29/14 23:57	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/22/14 17:45	05/29/14 23:57	1
Toluene-d8 (Surr)	100		75 - 122	05/22/14 17:45	05/29/14 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B10 Dup

Lab Sample ID: 500-77465-1

Date Collected: 05/21/14 14:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.5

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	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Pentachlorophenol	<0.85	*	0.85	0.67	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.34	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B10 Dup

Lab Sample ID: 500-77465-1

Date Collected: 05/21/14 14:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		25 - 110	06/02/14 07:15	06/03/14 15:48	1
Phenol-d5	53		31 - 110	06/02/14 07:15	06/03/14 15:48	1
Nitrobenzene-d5	59		25 - 115	06/02/14 07:15	06/03/14 15:48	1
2-Fluorobiphenyl	55		25 - 119	06/02/14 07:15	06/03/14 15:48	1
2,4,6-Tribromophenol	68		35 - 137	06/02/14 07:15	06/03/14 15:48	1
Terphenyl-d14	65		36 - 134	06/02/14 07:15	06/03/14 15:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.2	0.48	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Arsenic	9.2		0.60	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Barium	130		0.60	0.064	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Beryllium	0.74		0.24	0.048	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Boron	3.8		3.0	0.60	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Cadmium	0.17		0.12	0.015	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Calcium	3700		12	3.2	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Chromium	19		0.60	0.069	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Cobalt	11		0.30	0.060	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Copper	20		0.60	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Iron	21000		12	4.9	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Lead	13	B	0.30	0.089	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Magnesium	4400		6.0	1.2	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Manganese	820		0.60	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Nickel	26		0.60	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Potassium	1600		30	1.8	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Selenium	0.84		0.60	0.21	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Sodium	550		60	8.0	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	06/02/14 17:00	06/04/14 16:44	1
Vanadium	35		0.30	0.044	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1
Zinc	46	B	1.2	0.24	mg/Kg	☼	06/02/14 17:00	06/03/14 14:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 18:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 18:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B10 Dup

Lab Sample ID: 500-77465-1

Date Collected: 05/21/14 14:30

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 16:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 16:26	1
Boron	1.4	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 16:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 16:26	1
Chromium	0.028		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:26	1
Cobalt	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:26	1
Iron	18		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 16:26	1
Lead	0.0078		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 16:26	1
Manganese	0.072		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:26	1
Nickel	0.016	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:26	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 16:26	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:26	1
Zinc	0.082	J	0.10	0.020	mg/L		06/05/14 15:00	06/06/14 16:26	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		06/05/14 15:00	06/06/14 12:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 12:41	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		06/05/14 13:15	06/06/14 11:26	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	0.048		0.020	0.0078	mg/Kg	✱	05/28/14 14:30	05/29/14 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			05/27/14 16:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B11

Lab Sample ID: 500-77465-2

Date Collected: 05/21/14 14:20

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.5

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	☼	05/22/14 17:45	05/30/14 00:21	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/22/14 17:45	05/30/14 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	05/22/14 17:45	05/30/14 00:21	1
Dibromofluoromethane	106		75 - 120	05/22/14 17:45	05/30/14 00:21	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/22/14 17:45	05/30/14 00:21	1
Toluene-d8 (Surr)	100		75 - 122	05/22/14 17:45	05/30/14 00:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.094	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
1,4-Dichlorobenzene	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B11

Lab Sample ID: 500-77465-2

Date Collected: 05/21/14 14:20

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.5

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	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2-Chlorophenol	<0.21		0.21	0.073	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2-Methylnaphthalene	<0.042		0.042	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2,6-Dinitrotoluene	<0.21		0.21	0.084	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Dimethyl phthalate	<0.21		0.21	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
2,4-Dinitrotoluene	<0.21		0.21	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Pentachlorophenol	<0.86	*	0.86	0.68	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.34	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B11

Lab Sample ID: 500-77465-2

Date Collected: 05/21/14 14:20

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Benzo[b]fluoranthene	<0.042		0.042	0.0092	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Benzo[k]fluoranthene	<0.042		0.042	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	06/02/14 07:15	06/03/14 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	06/02/14 07:15	06/03/14 16:08	1
Phenol-d5	51		31 - 110	06/02/14 07:15	06/03/14 16:08	1
Nitrobenzene-d5	56		25 - 115	06/02/14 07:15	06/03/14 16:08	1
2-Fluorobiphenyl	51		25 - 119	06/02/14 07:15	06/03/14 16:08	1
2,4,6-Tribromophenol	68		35 - 137	06/02/14 07:15	06/03/14 16:08	1
Terphenyl-d14	62		36 - 134	06/02/14 07:15	06/03/14 16:08	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	☼	06/02/14 17:00	06/03/14 14:06	1
Arsenic	8.3		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Barium	120		0.62	0.066	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Beryllium	0.62		0.25	0.050	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Boron	3.2		3.1	0.62	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Cadmium	0.14		0.12	0.016	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Calcium	3100		12	3.4	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Chromium	17		0.62	0.072	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Cobalt	6.0		0.31	0.062	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Copper	18		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Iron	19000		12	5.1	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Lead	9.7 B		0.31	0.092	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Magnesium	3700		6.2	1.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Manganese	360		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Nickel	21		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Potassium	810		31	1.9	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Selenium	0.65		0.62	0.22	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Sodium	460		62	8.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	06/02/14 17:00	06/04/14 16:49	1
Vanadium	31		0.31	0.046	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1
Zinc	41 B		1.2	0.25	mg/Kg	☼	06/02/14 17:00	06/03/14 14:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.43		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B11

Lab Sample ID: 500-77465-2

Date Collected: 05/21/14 14:20

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 16:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 16:51	1
Boron	1.3	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 16:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 16:51	1
Chromium	0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:51	1
Cobalt	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:51	1
Iron	15		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 16:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 16:51	1
Manganese	0.044		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:51	1
Nickel	0.012	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:51	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 16:51	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:51	1
Zinc	0.068	J	0.10	0.020	mg/L		06/05/14 15:00	06/06/14 16:51	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		06/05/14 15:00	06/06/14 12:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 12:55	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		06/05/14 13:15	06/06/14 11:28	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	0.052		0.021	0.0082	mg/Kg	✱	05/28/14 14:30	05/29/14 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.38		0.200	0.200	SU			05/28/14 15:17	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B12

Lab Sample ID: 500-77465-3

Date Collected: 05/21/14 14:10

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	05/22/14 17:45	05/30/14 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/22/14 17:45	05/30/14 00:45	1
Dibromofluoromethane	108		75 - 120	05/22/14 17:45	05/30/14 00:45	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	05/22/14 17:45	05/30/14 00:45	1
Toluene-d8 (Surr)	98		75 - 122	05/22/14 17:45	05/30/14 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B12

Lab Sample ID: 500-77465-3

Date Collected: 05/21/14 14:10

Matrix: Solid

Date Received: 05/22/14 12:10

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	☼	06/02/14 07:15	06/03/14 16:27	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Pentachlorophenol	<0.79	*	0.79	0.63	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Phenanthrene	0.0092	J	0.039	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Fluoranthene	0.017	J	0.039	0.0073	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Pyrene	0.012	J	0.039	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B12

Lab Sample ID: 500-77465-3

Date Collected: 05/21/14 14:10

Matrix: Solid

Date Received: 05/22/14 12:10

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	☼	06/02/14 07:15	06/03/14 16:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Benzo[b]fluoranthene	0.015	J	0.039	0.0085	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
Benzo[g,h,i]perylene	0.016	J	0.039	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	06/02/14 07:15	06/03/14 16:27	1
Phenol-d5	50		31 - 110	06/02/14 07:15	06/03/14 16:27	1
Nitrobenzene-d5	53		25 - 115	06/02/14 07:15	06/03/14 16:27	1
2-Fluorobiphenyl	54		25 - 119	06/02/14 07:15	06/03/14 16:27	1
2,4,6-Tribromophenol	75		35 - 137	06/02/14 07:15	06/03/14 16:27	1
Terphenyl-d14	68		36 - 134	06/02/14 07:15	06/03/14 16:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Arsenic	4.4		0.61	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Barium	120		0.61	0.065	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Beryllium	0.60		0.24	0.049	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Boron	2.1	J	3.1	0.61	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Cadmium	0.071	J	0.12	0.016	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Calcium	3200		12	3.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Chromium	17		0.61	0.071	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Cobalt	7.1		0.31	0.061	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Copper	12		0.61	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Iron	15000		12	5.0	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Lead	12	B	0.31	0.091	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Magnesium	3200		6.1	1.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Manganese	290		0.61	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Nickel	12		0.61	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Potassium	790		31	1.8	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Selenium	0.56	J	0.61	0.22	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Sodium	280		61	8.2	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Thallium	<0.61		0.61	0.26	mg/Kg	☼	06/02/14 17:00	06/04/14 16:54	1
Vanadium	24		0.31	0.045	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1
Zinc	43	B	1.2	0.25	mg/Kg	☼	06/02/14 17:00	06/03/14 14:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 19:14	1
Manganese	0.056		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B12

Lab Sample ID: 500-77465-3

Date Collected: 05/21/14 14:10

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 16:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 16:57	1
Boron	1.2	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 16:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 16:57	1
Chromium	0.089		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:57	1
Cobalt	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:57	1
Iron	61		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 16:57	1
Lead	0.019		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 16:57	1
Manganese	0.26		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:57	1
Nickel	0.041		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:57	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 16:57	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 16:57	1
Zinc	0.22		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 16:57	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		06/05/14 15:00	06/06/14 12:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0076	mg/Kg	✱	05/28/14 14:30	05/29/14 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.55		0.200	0.200	SU			05/28/14 15:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B13

Lab Sample ID: 500-77465-4

Date Collected: 05/21/14 14:00

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.3

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	☼	05/22/14 17:45	05/30/14 01:10	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
1,1,1-Dichloroethane	<0.0048		0.0048	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/22/14 17:45	05/30/14 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/22/14 17:45	05/30/14 01:10	1
Dibromofluoromethane	110		75 - 120	05/22/14 17:45	05/30/14 01:10	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/22/14 17:45	05/30/14 01:10	1
Toluene-d8 (Surr)	100		75 - 122	05/22/14 17:45	05/30/14 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.095	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
1,4-Dichlorobenzene	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B13

Lab Sample ID: 500-77465-4

Date Collected: 05/21/14 14:00

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.3

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	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2-Chlorophenol	<0.21		0.21	0.073	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2-Methylnaphthalene	<0.042		0.042	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2,6-Dinitrotoluene	<0.21		0.21	0.084	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Dimethyl phthalate	<0.21		0.21	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
2,4-Dinitrotoluene	<0.21		0.21	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Acenaphthene	<0.042		0.042	0.0077	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Pentachlorophenol	<0.86	*	0.86	0.68	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.34	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Pyrene	<0.042		0.042	0.0085	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B13

Lab Sample ID: 500-77465-4

Date Collected: 05/21/14 14:00

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Benzo[b]fluoranthene	<0.042		0.042	0.0092	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Benzo[k]fluoranthene	<0.042		0.042	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	06/02/14 07:15	06/03/14 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110	06/02/14 07:15	06/03/14 16:46	1
Phenol-d5	45		31 - 110	06/02/14 07:15	06/03/14 16:46	1
Nitrobenzene-d5	45		25 - 115	06/02/14 07:15	06/03/14 16:46	1
2-Fluorobiphenyl	42		25 - 119	06/02/14 07:15	06/03/14 16:46	1
2,4,6-Tribromophenol	64		35 - 137	06/02/14 07:15	06/03/14 16:46	1
Terphenyl-d14	55		36 - 134	06/02/14 07:15	06/03/14 16:46	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	☼	06/02/14 17:00	06/03/14 14:16	1
Arsenic	9.4		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Barium	120		0.64	0.069	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Beryllium	0.79		0.26	0.051	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Boron	4.0		3.2	0.64	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Cadmium	0.15		0.13	0.016	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Calcium	3600		13	3.5	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Chromium	22		0.64	0.074	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Cobalt	12		0.32	0.064	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Copper	19		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Iron	23000		13	5.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Lead	18 B		0.32	0.096	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Magnesium	3900		6.4	1.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Manganese	880		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Nickel	20		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Potassium	1300		32	1.9	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Selenium	1.1		0.64	0.23	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Sodium	1600		64	8.6	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Thallium	0.29 J		0.64	0.27	mg/Kg	☼	06/02/14 17:00	06/04/14 16:59	1
Vanadium	39		0.32	0.047	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1
Zinc	53 B		1.3	0.26	mg/Kg	☼	06/02/14 17:00	06/03/14 14:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/13/14 08:30	06/13/14 19:19	1
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:19	1
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B13

Lab Sample ID: 500-77465-4

Date Collected: 05/21/14 14:00

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 19:19	1
Manganese	0.011	J	0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:19	1
Nickel	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.89		0.50	0.050	mg/L		06/05/14 15:00	06/06/14 17:04	1
Beryllium	0.0063		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 17:04	1
Boron	1.1	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 17:04	1
Chromium	0.20		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:04	1
Cobalt	0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:04	1
Iron	190		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 17:04	1
Lead	0.051		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 17:04	1
Manganese	0.74		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:04	1
Nickel	0.13		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:04	1
Selenium	0.010	J	0.050	0.010	mg/L		06/05/14 15:00	06/06/14 17:04	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:04	1
Zinc	0.48		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 17:04	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		06/05/14 15:00	06/06/14 13:02	1
Thallium	0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00041		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 11:38	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	0.056		0.022	0.0085	mg/Kg	☼	05/28/14 14:30	05/29/14 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			05/28/14 15:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B10

Lab Sample ID: 500-77465-5

Date Collected: 05/21/14 14:25

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 81.2

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	☼	05/22/14 17:45	05/30/14 01:33	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Chloroethane	<0.0046	*	0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1
Xylenes, Total	<0.0092		0.0092	0.00041	mg/Kg	☼	05/22/14 17:45	05/30/14 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/22/14 17:45	05/30/14 01:33	1
Dibromofluoromethane	104		75 - 120	05/22/14 17:45	05/30/14 01:33	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	05/22/14 17:45	05/30/14 01:33	1
Toluene-d8 (Surr)	101		75 - 122	05/22/14 17:45	05/30/14 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B10

Lab Sample ID: 500-77465-5

Date Collected: 05/21/14 14:25

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 81.2

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	☼	06/02/14 07:15	06/03/14 17:06	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Pentachlorophenol	<0.81	*	0.81	0.65	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B10

Lab Sample ID: 500-77465-5

Date Collected: 05/21/14 14:25

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 81.2

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	☼	06/02/14 07:15	06/03/14 17:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110				06/02/14 07:15	06/03/14 17:06	1
Phenol-d5	50		31 - 110				06/02/14 07:15	06/03/14 17:06	1
Nitrobenzene-d5	49		25 - 115				06/02/14 07:15	06/03/14 17:06	1
2-Fluorobiphenyl	45		25 - 119				06/02/14 07:15	06/03/14 17:06	1
2,4,6-Tribromophenol	66		35 - 137				06/02/14 07:15	06/03/14 17:06	1
Terphenyl-d14	62		36 - 134				06/02/14 07:15	06/03/14 17:06	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	☼	06/02/14 17:00	06/03/14 14:20	1
Arsenic	8.4		0.60	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Barium	120		0.60	0.064	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Beryllium	0.63		0.24	0.048	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Boron	4.5		3.0	0.60	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Cadmium	0.18		0.12	0.015	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Calcium	3300		12	3.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Chromium	17		0.60	0.070	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Cobalt	7.3		0.30	0.060	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Copper	17		0.60	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Iron	18000		12	4.9	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Lead	10 B		0.30	0.090	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Magnesium	3800		6.0	1.2	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Manganese	590		0.60	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Nickel	27		0.60	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Potassium	1500		30	1.8	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Selenium	0.66		0.60	0.21	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Sodium	410		60	8.1	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	06/02/14 17:00	06/04/14 17:11	1
Vanadium	31		0.30	0.044	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1
Zinc	40 B		1.2	0.24	mg/Kg	☼	06/02/14 17:00	06/03/14 14:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.23		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 19:24	1
Manganese	0.018 J		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B10

Lab Sample ID: 500-77465-5

Date Collected: 05/21/14 14:25

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 17:25	1
Boron	1.1	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 17:25	1
Chromium	0.069		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:25	1
Cobalt	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:25	1
Iron	57		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 17:25	1
Lead	0.014		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 17:25	1
Manganese	0.21		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:25	1
Nickel	0.047		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:25	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 17:25	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:25	1
Zinc	0.18		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 17:25	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		06/05/14 15:00	06/06/14 13:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0076	mg/Kg	✱	05/28/14 14:30	05/29/14 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			05/28/14 15:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B09

Lab Sample ID: 500-77465-6

Date Collected: 05/21/14 14:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 81.4

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	☼	05/22/14 17:45	05/30/14 01:57	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	05/22/14 17:45	05/30/14 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/22/14 17:45	05/30/14 01:57	1
Dibromofluoromethane	110		75 - 120	05/22/14 17:45	05/30/14 01:57	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/22/14 17:45	05/30/14 01:57	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B09

Lab Sample ID: 500-77465-6

Date Collected: 05/21/14 14:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 81.4

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	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Pentachlorophenol	<0.78	*	0.78	0.62	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B09

Lab Sample ID: 500-77465-6

Date Collected: 05/21/14 14:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 81.4

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	☼	06/02/14 07:15	06/03/14 17:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110	06/02/14 07:15	06/03/14 17:25	1
Phenol-d5	37		31 - 110	06/02/14 07:15	06/03/14 17:25	1
Nitrobenzene-d5	36		25 - 115	06/02/14 07:15	06/03/14 17:25	1
2-Fluorobiphenyl	37		25 - 119	06/02/14 07:15	06/03/14 17:25	1
2,4,6-Tribromophenol	54		35 - 137	06/02/14 07:15	06/03/14 17:25	1
Terphenyl-d14	51		36 - 134	06/02/14 07:15	06/03/14 17:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Arsenic	7.9		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Barium	84		0.57	0.060	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Beryllium	0.61		0.23	0.045	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Boron	3.4		2.8	0.57	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Cadmium	0.16		0.11	0.014	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Calcium	1400		11	3.1	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Chromium	16		0.57	0.066	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Cobalt	7.0		0.28	0.057	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Copper	19		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Iron	20000		11	4.6	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Lead	8.7 B		0.28	0.084	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Magnesium	2900		5.7	1.2	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Manganese	510		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Nickel	26		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Potassium	960		28	1.7	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Selenium	0.76		0.57	0.20	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Sodium	190		57	7.6	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Thallium	0.26 J		0.57	0.24	mg/Kg	☼	06/02/14 17:00	06/04/14 17:34	1
Vanadium	23		0.28	0.042	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1
Zinc	49 B		1.1	0.23	mg/Kg	☼	06/02/14 17:00	06/03/14 14:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/13/14 08:30	06/13/14 19:29	1
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:29	1
Iron	0.32		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B09

Lab Sample ID: 500-77465-6

Date Collected: 05/21/14 14:40

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.017		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 19:29	1
Manganese	0.018	J	0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:29	1
Nickel	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		06/05/14 15:00	06/06/14 17:31	1
Beryllium	0.0052		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 17:31	1
Boron	0.099	J B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 17:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 17:31	1
Chromium	0.13		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:31	1
Cobalt	0.024	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:31	1
Iron	140		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 17:31	1
Lead	0.046		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 17:31	1
Manganese	1.2		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:31	1
Nickel	0.12		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:31	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 17:31	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:31	1
Zinc	0.40		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 17:31	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		06/13/14 08:30	06/16/14 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/05/14 15:00	06/06/14 15:44	1
Thallium	0.0022		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0075	mg/Kg	☼	05/28/14 14:30	05/29/14 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.13		0.200	0.200	SU			05/28/14 15:24	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B08

Lab Sample ID: 500-77465-7

Date Collected: 05/21/14 14:50

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.6

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	☼	05/22/14 17:45	05/30/14 02:21	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Chloroethane	<0.0046	*	0.0046	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	05/22/14 17:45	05/30/14 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/22/14 17:45	05/30/14 02:21	1
Dibromofluoromethane	109		75 - 120	05/22/14 17:45	05/30/14 02:21	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/22/14 17:45	05/30/14 02:21	1
Toluene-d8 (Surr)	101		75 - 122	05/22/14 17:45	05/30/14 02:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B08

Lab Sample ID: 500-77465-7

Date Collected: 05/21/14 14:50

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.6

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	☼	06/02/14 07:15	06/03/14 17:45	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Pentachlorophenol	<0.79	*	0.79	0.63	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B08

Lab Sample ID: 500-77465-7

Date Collected: 05/21/14 14:50

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.6

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	☼	06/02/14 07:15	06/03/14 17:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	06/02/14 07:15	06/03/14 17:45	1
Phenol-d5	44		31 - 110	06/02/14 07:15	06/03/14 17:45	1
Nitrobenzene-d5	44		25 - 115	06/02/14 07:15	06/03/14 17:45	1
2-Fluorobiphenyl	41		25 - 119	06/02/14 07:15	06/03/14 17:45	1
2,4,6-Tribromophenol	66		35 - 137	06/02/14 07:15	06/03/14 17:45	1
Terphenyl-d14	60		36 - 134	06/02/14 07:15	06/03/14 17:45	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	☼	06/02/14 17:00	06/03/14 14:52	1
Arsenic	8.0		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Barium	120		0.57	0.061	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Beryllium	0.68		0.23	0.046	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Boron	2.8 J		2.9	0.57	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Cadmium	0.098 J		0.11	0.014	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Calcium	2200		11	3.1	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Chromium	18		0.57	0.066	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Cobalt	9.2		0.29	0.057	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Copper	12		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Iron	19000		11	4.7	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Lead	15 B		0.29	0.085	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Magnesium	3100		5.7	1.2	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Manganese	610		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Nickel	14		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Potassium	1100		29	1.7	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Selenium	1.0		0.57	0.20	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Sodium	88		57	7.6	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Thallium	0.34 J		0.57	0.24	mg/Kg	☼	06/02/14 17:00	06/04/14 17:39	1
Vanadium	35		0.29	0.042	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1
Zinc	46 B		1.1	0.23	mg/Kg	☼	06/02/14 17:00	06/03/14 14:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.21		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 19:34	1
Manganese	0.016 J		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B08

Lab Sample ID: 500-77465-7

Date Collected: 05/21/14 14:50

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 17:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 17:37	1
Boron	0.062	J B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 17:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 17:37	1
Chromium	0.070		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:37	1
Cobalt	0.011	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:37	1
Iron	71		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 17:37	1
Lead	0.036		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 17:37	1
Manganese	0.64		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:37	1
Nickel	0.048		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:37	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 17:37	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:37	1
Zinc	0.18		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 17:37	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		06/05/14 15:00	06/06/14 15:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0072	mg/Kg	✱	05/28/14 14:30	05/29/14 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU			05/28/14 15:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B07

Lab Sample ID: 500-77465-8

Date Collected: 05/21/14 15:00

Matrix: Solid

Date Received: 05/22/14 12:10

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	0.0020	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/22/14 17:45	05/30/14 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/22/14 17:45	05/30/14 02:44	1
Dibromofluoromethane	106		75 - 120	05/22/14 17:45	05/30/14 02:44	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/22/14 17:45	05/30/14 02:44	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 02:44	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	☼	06/02/14 07:15	06/03/14 18:04	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B07

Lab Sample ID: 500-77465-8

Date Collected: 05/21/14 15:00

Matrix: Solid

Date Received: 05/22/14 12:10

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	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Pentachlorophenol	<0.84	*	0.84	0.67	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B07

Lab Sample ID: 500-77465-8

Date Collected: 05/21/14 15:00

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	06/02/14 07:15	06/03/14 18:04	1
Phenol-d5	48		31 - 110	06/02/14 07:15	06/03/14 18:04	1
Nitrobenzene-d5	48		25 - 115	06/02/14 07:15	06/03/14 18:04	1
2-Fluorobiphenyl	47		25 - 119	06/02/14 07:15	06/03/14 18:04	1
2,4,6-Tribromophenol	54		35 - 137	06/02/14 07:15	06/03/14 18:04	1
Terphenyl-d14	63		36 - 134	06/02/14 07:15	06/03/14 18:04	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	☼	06/02/14 17:00	06/03/14 14:56	1
Arsenic	9.7		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Barium	110		0.62	0.067	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Beryllium	0.74		0.25	0.050	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Boron	3.2		3.1	0.62	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Cadmium	0.081	J	0.12	0.016	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Calcium	2200		12	3.4	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Chromium	18		0.62	0.072	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Cobalt	8.7		0.31	0.062	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Copper	19		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Iron	22000		12	5.1	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Lead	13	B	0.31	0.093	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Magnesium	3400		6.2	1.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Manganese	590		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Nickel	19		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Potassium	910		31	1.9	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Selenium	0.87		0.62	0.22	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Sodium	140		62	8.3	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Thallium	0.37	J	0.62	0.26	mg/Kg	☼	06/02/14 17:00	06/04/14 17:44	1
Vanadium	33		0.31	0.046	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1
Zinc	46	B	1.2	0.25	mg/Kg	☼	06/02/14 17:00	06/03/14 14:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/13/14 08:30	06/13/14 19:47	1
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:47	1
Iron	0.22		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B07

Lab Sample ID: 500-77465-8

Date Collected: 05/21/14 15:00

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 19:47	1
Manganese	0.69		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		06/05/14 15:00	06/06/14 17:43	1
Beryllium	0.0045		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 17:43	1
Boron	0.084	J B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 17:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 17:43	1
Chromium	0.12		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:43	1
Cobalt	0.018	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:43	1
Iron	120		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 17:43	1
Lead	0.041		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 17:43	1
Manganese	0.82		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:43	1
Nickel	0.093		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:43	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 17:43	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:43	1
Zinc	0.29		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 17:43	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		06/05/14 15:00	06/06/14 15:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00030		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 11:46	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	0.044		0.018	0.0071	mg/Kg	☼	05/28/14 14:30	05/29/14 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.59		0.200	0.200	SU			05/28/14 15:27	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B06-1

Lab Sample ID: 500-77465-9

Date Collected: 05/21/14 15:10

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0035		0.0035	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Benzene	<0.0035		0.0035	0.00047	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Bromodichloromethane	<0.0035		0.0035	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Bromoform	<0.0035		0.0035	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Bromomethane	<0.0035		0.0035	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
2-Butanone (MEK)	<0.0035		0.0035	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Carbon disulfide	<0.0035		0.0035	0.00052	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Carbon tetrachloride	<0.0035		0.0035	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Chlorobenzene	<0.0035		0.0035	0.00035	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Chloroethane	<0.0035	*	0.0035	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Chloroform	<0.0035		0.0035	0.00040	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Chloromethane	<0.0035		0.0035	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00049	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00045	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Dibromochloromethane	<0.0035		0.0035	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
1,1-Dichloroethane	<0.0035		0.0035	0.00055	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
1,2-Dichloroethane	<0.0035		0.0035	0.00051	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
1,1,1-Dichloroethane	<0.0035		0.0035	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
1,2-Dichloropropane	<0.0035		0.0035	0.00053	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
1,3-Dichloropropene, Total	<0.0035		0.0035	0.00045	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Ethylbenzene	<0.0035		0.0035	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
2-Hexanone	<0.0035		0.0035	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Methylene Chloride	<0.0035		0.0035	0.00093	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00091	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00057	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Styrene	<0.0035		0.0035	0.00045	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
1,1,1,2-Tetrachloroethane	<0.0035		0.0035	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Tetrachloroethene	<0.0035		0.0035	0.00053	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Toluene	<0.0035		0.0035	0.00048	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00048	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00052	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00047	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Trichloroethene	<0.0035		0.0035	0.00057	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Vinyl acetate	<0.0035		0.0035	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Vinyl chloride	<0.0035		0.0035	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1
Xylenes, Total	<0.0069		0.0069	0.00031	mg/Kg	☼	05/22/14 17:45	05/30/14 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	05/22/14 17:45	05/30/14 03:08	1
Dibromofluoromethane	107		75 - 120	05/22/14 17:45	05/30/14 03:08	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/22/14 17:45	05/30/14 03:08	1
Toluene-d8 (Surr)	100		75 - 122	05/22/14 17:45	05/30/14 03:08	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	☼	06/02/14 07:15	06/03/14 18:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B06-1

Lab Sample ID: 500-77465-9

Date Collected: 05/21/14 15:10

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 88.3

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	☼	06/02/14 07:15	06/03/14 18:23	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Pentachlorophenol	<0.74	*	0.74	0.59	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Phenanthrene	<0.037		0.037	0.0051	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B06-1

Lab Sample ID: 500-77465-9

Date Collected: 05/21/14 15:10

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 88.3

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	☼	06/02/14 07:15	06/03/14 18:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	06/02/14 07:15	06/03/14 18:23	1
Phenol-d5	56		31 - 110	06/02/14 07:15	06/03/14 18:23	1
Nitrobenzene-d5	64		25 - 115	06/02/14 07:15	06/03/14 18:23	1
2-Fluorobiphenyl	67		25 - 119	06/02/14 07:15	06/03/14 18:23	1
2,4,6-Tribromophenol	79		35 - 137	06/02/14 07:15	06/03/14 18:23	1
Terphenyl-d14	69		36 - 134	06/02/14 07:15	06/03/14 18:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Arsenic	3.9		0.54	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Barium	19		0.54	0.058	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Beryllium	0.22		0.22	0.043	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Boron	6.1		2.7	0.54	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Calcium	100000		110	29	mg/Kg	☼	06/02/14 17:00	06/04/14 17:54	10
Chromium	5.9		0.54	0.063	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Cobalt	3.1		0.27	0.054	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Copper	9.1		0.54	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Iron	8000		11	4.4	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Lead	4.4 B		0.27	0.080	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Magnesium	41000		5.4	1.1	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Manganese	280		0.54	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Nickel	8.0		0.54	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Potassium	980		27	1.6	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Sodium	410		54	7.2	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	06/02/14 17:00	06/04/14 17:49	1
Vanadium	10		0.27	0.040	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1
Zinc	23 B		1.1	0.22	mg/Kg	☼	06/02/14 17:00	06/03/14 15:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B06-1

Lab Sample ID: 500-77465-9

Date Collected: 05/21/14 15:10

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.052	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 17:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 17:49	1
Boron	0.074	J B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 17:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 17:49	1
Chromium	0.013	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:49	1
Cobalt	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:49	1
Iron	14		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 17:49	1
Lead	0.0083		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 17:49	1
Manganese	0.084		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:49	1
Nickel	0.013	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:49	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 17:49	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:49	1
Zinc	0.054	J	0.10	0.020	mg/L		06/05/14 15:00	06/06/14 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		06/05/14 15:00	06/06/14 15:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:30	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		06/05/14 13:15	06/06/14 11:49	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	0.0074	J	0.017	0.0068	mg/Kg	✱	05/28/14 14:30	05/29/14 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU			05/28/14 15:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B06-2

Lab Sample ID: 500-77465-10

Date Collected: 05/21/14 15:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0035		0.0035	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Benzene	<0.0035		0.0035	0.00048	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Bromodichloromethane	<0.0035		0.0035	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Bromoform	<0.0035		0.0035	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Bromomethane	<0.0035		0.0035	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
2-Butanone (MEK)	<0.0035		0.0035	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Carbon disulfide	<0.0035		0.0035	0.00053	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Carbon tetrachloride	<0.0035		0.0035	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Chlorobenzene	<0.0035		0.0035	0.00036	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Chloroethane	<0.0035	*	0.0035	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Chloroform	<0.0035		0.0035	0.00041	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Chloromethane	<0.0035		0.0035	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00050	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Dibromochloromethane	<0.0035		0.0035	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
1,1-Dichloroethane	<0.0035		0.0035	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
1,2-Dichloroethane	<0.0035		0.0035	0.00052	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
1,1,1-Dichloroethane	<0.0035		0.0035	0.00057	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
1,2-Dichloropropane	<0.0035		0.0035	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
1,3-Dichloropropene, Total	<0.0035		0.0035	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Ethylbenzene	<0.0035		0.0035	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
2-Hexanone	<0.0035		0.0035	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Methylene Chloride	<0.0035		0.0035	0.00095	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Styrene	<0.0035		0.0035	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
1,1,1,2-Tetrachloroethane	<0.0035		0.0035	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Tetrachloroethene	<0.0035		0.0035	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Toluene	<0.0035		0.0035	0.00049	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00049	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00053	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00048	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Trichloroethene	<0.0035		0.0035	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Vinyl acetate	<0.0035		0.0035	0.00055	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Vinyl chloride	<0.0035		0.0035	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1
Xylenes, Total	<0.0070		0.0070	0.00032	mg/Kg	☼	05/22/14 17:45	05/30/14 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	05/22/14 17:45	05/30/14 03:32	1
Dibromofluoromethane	106		75 - 120	05/22/14 17:45	05/30/14 03:32	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	05/22/14 17:45	05/30/14 03:32	1
Toluene-d8 (Surr)	102		75 - 122	05/22/14 17:45	05/30/14 03:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B06-2

Lab Sample ID: 500-77465-10

Date Collected: 05/21/14 15:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 86.0

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	☼	06/02/14 07:15	06/03/14 18:43	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Pentachlorophenol	<0.77	*	0.77	0.62	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B06-2

Lab Sample ID: 500-77465-10

Date Collected: 05/21/14 15:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		25 - 110				06/02/14 07:15	06/03/14 18:43	1
Phenol-d5	55		31 - 110				06/02/14 07:15	06/03/14 18:43	1
Nitrobenzene-d5	61		25 - 115				06/02/14 07:15	06/03/14 18:43	1
2-Fluorobiphenyl	59		25 - 119				06/02/14 07:15	06/03/14 18:43	1
2,4,6-Tribromophenol	80		35 - 137				06/02/14 07:15	06/03/14 18:43	1
Terphenyl-d14	65		36 - 134				06/02/14 07:15	06/03/14 18:43	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	☼	06/02/14 17:00	06/03/14 15:04	1
Arsenic	4.2		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Barium	23		0.57	0.061	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Beryllium	0.27		0.23	0.046	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Boron	7.7		2.9	0.57	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Cadmium	0.20		0.11	0.015	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Calcium	93000		110	31	mg/Kg	☼	06/02/14 17:00	06/04/14 18:10	10
Chromium	7.4		0.57	0.066	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Cobalt	3.6		0.29	0.057	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Copper	11		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Iron	9000		11	4.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Lead	4.5 B		0.29	0.085	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Magnesium	45000		5.7	1.2	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Manganese	290		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Nickel	8.7		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Potassium	1200		29	1.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Sodium	580		57	7.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	06/02/14 17:00	06/04/14 18:05	1
Vanadium	12		0.29	0.042	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1
Zinc	24 B		1.1	0.23	mg/Kg	☼	06/02/14 17:00	06/03/14 15:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 19:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

Client Sample ID: 2819-33-B06-2

Lab Sample ID: 500-77465-10

Date Collected: 05/21/14 15:15

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.070	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 17:56	1
Boron	0.083	J B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 17:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 17:56	1
Chromium	0.018	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:56	1
Cobalt	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:56	1
Iron	19		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 17:56	1
Lead	0.0096		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 17:56	1
Manganese	0.12		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:56	1
Nickel	0.018	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:56	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 17:56	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 17:56	1
Zinc	0.082	J	0.10	0.020	mg/L		06/05/14 15:00	06/06/14 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		06/05/14 15:00	06/06/14 15:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:33	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		06/05/14 13:15	06/06/14 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0068	mg/Kg	✱	05/28/14 14:30	05/29/14 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			05/28/14 15:29	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-1

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
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
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.
B	Compound was found in the blank and sample.
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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



REWS
RING INC

CHAIN OF CUSTODY RECORD

Client C 500-77465 COC	Laboratory	Project Name: <u>US30 Sugar Grove Kane Co</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: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project No.: <u>IDOT 2013-074</u>	Lab Job No.: <u>500-77465</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: <u>(2.7) (2.3) (3.1)</u>
		Sampler: <u>CF/cm</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											
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
1	2819-33-B10 DUP	5/21	2:30	S	X	X					X	X	X	X		
2	2819-33-B11		2:20	S	X	X					X	X	X	X		
3	2819-33-B12		2:10	S	X	X					X	X	X	X		
4	2819-33-B13		2:00	S	X	X					X	X	X	X		
5	2819-33-B10		2:25	S	X	X					X	X	X	X		
6	" - " - B09		2:40	S	X	X					X	X	X	X		
7	" - " - B09		2:50	S	X	X					X	X	X	X		
8	" - " - B07		3:00	S	X	X					X	X	X	X		
9	" - " - B06-1		3:10	S	X	X					X	X	X	X		
10	" - " - B06-2	✓	3:15	S	X	X					X	X	X	X		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>5/21/14 4:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/21/14 1600</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>5/22/14 800 AM</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/22/14 0925</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>5/22/14 1210</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/22/14 1210</u>

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: 500-77578-3
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 3:58:31 PM

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

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www.testamericainc.com

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B01

Lab Sample ID: 500-77578-9

Date Collected: 05/22/14 09:00

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	05/22/14 09:00	05/30/14 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	05/22/14 09:00	05/30/14 18:05	1
Dibromofluoromethane	112		75 - 120	05/22/14 09:00	05/30/14 18:05	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	05/22/14 09:00	05/30/14 18:05	1
Toluene-d8 (Surr)	100		75 - 122	05/22/14 09:00	05/30/14 18:05	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	☼	06/04/14 18:45	06/05/14 19:44	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B01

Lab Sample ID: 500-77578-9

Date Collected: 05/22/14 09:00

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.6

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	0.050	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2,4-Dinitrophenol	<0.84	*	0.84	0.73	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
4,6-Dinitro-2-methylphenol	<0.41	*	0.41	0.33	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Phenanthrene	0.026	J	0.041	0.0058	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Fluoranthene	0.041		0.041	0.0077	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Pyrene	0.064		0.041	0.0083	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Benzo[a]anthracene	0.017	J	0.041	0.0056	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B01

Lab Sample ID: 500-77578-9

Date Collected: 05/22/14 09:00

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.041	0.011	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Benzo[b]fluoranthene	0.032	J	0.041	0.0090	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	06/04/14 18:45	06/05/14 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110				06/04/14 18:45	06/05/14 19:44	1
Phenol-d5	49		31 - 110				06/04/14 18:45	06/05/14 19:44	1
Nitrobenzene-d5	51		25 - 115				06/04/14 18:45	06/05/14 19:44	1
2-Fluorobiphenyl	50		25 - 119				06/04/14 18:45	06/05/14 19:44	1
2,4,6-Tribromophenol	21	X	35 - 137				06/04/14 18:45	06/05/14 19:44	1
Terphenyl-d14	113		36 - 134				06/04/14 18:45	06/05/14 19:44	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	☼	06/04/14 08:30	06/05/14 08:17	1
Arsenic	9.1		0.60	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Barium	120		0.60	0.064	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Beryllium	0.68		0.24	0.048	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Boron	2.0	J	3.0	0.60	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Cadmium	0.14		0.12	0.015	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Calcium	2400		12	3.3	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Chromium	15		0.60	0.070	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Cobalt	7.2		0.30	0.060	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Copper	16		0.60	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Iron	19000		12	5.0	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Lead	10	B	0.30	0.090	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Magnesium	2900		6.0	1.2	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Manganese	460		0.60	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Nickel	22		0.60	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Potassium	720		30	1.8	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Selenium	0.59	J	0.60	0.21	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Sodium	710		60	8.1	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Thallium	1.5		0.60	0.25	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Vanadium	26		0.30	0.045	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1
Zinc	38		1.2	0.24	mg/Kg	☼	06/04/14 08:30	06/05/14 08:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.15	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 14:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 14:58	1
Boron	0.91		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 14:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B01

Lab Sample ID: 500-77578-9

Date Collected: 05/22/14 09:00

Matrix: Solid

Date Received: 05/23/14 12:20

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		06/07/14 11:00	06/09/14 14:58	1
Chromium	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:58	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:58	1
Iron	3.4		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 14:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 14:58	1
Manganese	0.013	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:58	1
Nickel	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:58	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 14:58	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 14:58	1
Zinc	0.040	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/07/14 11:00	06/09/14 15:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 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		06/09/14 11:35	06/10/14 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.021	0.0082	mg/Kg	☆	06/02/14 15:30	06/03/14 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.55		0.200	0.200	SU			06/09/14 14:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B02

Lab Sample ID: 500-77578-10

Date Collected: 05/22/14 08:50

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.8

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	☼	05/22/14 08:50	05/30/14 18:28	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1
Xylenes, Total	<0.0089		0.0089	0.00041	mg/Kg	☼	05/22/14 08:50	05/30/14 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	05/22/14 08:50	05/30/14 18:28	1
Dibromofluoromethane	111		75 - 120	05/22/14 08:50	05/30/14 18:28	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	05/22/14 08:50	05/30/14 18:28	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 08:50	05/30/14 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B02

Lab Sample ID: 500-77578-10

Date Collected: 05/22/14 08:50

Matrix: Solid

Date Received: 05/23/14 12:20

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	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.32	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B02

Lab Sample ID: 500-77578-10

Date Collected: 05/22/14 08:50

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 79.8

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	☼	06/04/14 18:45	06/05/14 20:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	06/04/14 18:45	06/05/14 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110	06/04/14 18:45	06/05/14 20:05	1
Phenol-d5	44		31 - 110	06/04/14 18:45	06/05/14 20:05	1
Nitrobenzene-d5	44		25 - 115	06/04/14 18:45	06/05/14 20:05	1
2-Fluorobiphenyl	44		25 - 119	06/04/14 18:45	06/05/14 20:05	1
2,4,6-Tribromophenol	26	X	35 - 137	06/04/14 18:45	06/05/14 20:05	1
Terphenyl-d14	113		36 - 134	06/04/14 18:45	06/05/14 20:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.2	0.48	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Arsenic	6.0		0.59	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Barium	120		0.59	0.064	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Beryllium	0.77		0.24	0.048	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Boron	1.8	J	3.0	0.59	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Cadmium	0.13		0.12	0.015	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Calcium	2500		12	3.2	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Chromium	19		0.59	0.069	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Cobalt	9.4		0.30	0.059	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Copper	17		0.59	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Iron	20000		12	4.9	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Lead	11	B	0.30	0.089	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Magnesium	3300		5.9	1.2	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Manganese	690		0.59	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Nickel	17		0.59	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Potassium	860		30	1.8	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Selenium	0.77		0.59	0.21	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Sodium	620		59	8.0	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Thallium	1.4		0.59	0.25	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Vanadium	28		0.30	0.044	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1
Zinc	45		1.2	0.24	mg/Kg	☼	06/04/14 08:30	06/05/14 08:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.34		0.20	0.20	mg/L		06/16/14 11:00	06/16/14 21:15	1
Lead	0.16		0.0075	0.0075	mg/L		06/16/14 11:00	06/16/14 21:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B02

Lab Sample ID: 500-77578-10

Date Collected: 05/22/14 08:50

Matrix: Solid

Date Received: 05/23/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 15:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 15:02	1
Boron	1.6		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 15:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/07/14 11:00	06/09/14 15:02	1
Chromium	0.020	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:02	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:02	1
Iron	11		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 15:02	1
Lead	0.017		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 15:02	1
Manganese	0.031		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:02	1
Nickel	0.028		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:02	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 15:02	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:02	1
Zinc	0.087	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/07/14 11:00	06/09/14 15:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/09/14 11:35	06/10/14 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.021	0.0081	mg/Kg	✱	06/02/14 15:30	06/03/14 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			06/09/14 14:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B03

Lab Sample ID: 500-77578-11

Date Collected: 05/22/14 08:45

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	05/22/14 08:45	05/30/14 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	05/22/14 08:45	05/30/14 18:51	1
Dibromofluoromethane	117		75 - 120	05/22/14 08:45	05/30/14 18:51	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	05/22/14 08:45	05/30/14 18:51	1
Toluene-d8 (Surr)	98		75 - 122	05/22/14 08:45	05/30/14 18:51	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	☼	06/04/14 18:45	06/06/14 14:55	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B03

Lab Sample ID: 500-77578-11

Date Collected: 05/22/14 08:45

Matrix: Solid

Date Received: 05/23/14 12:20

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	☼	06/04/14 18:45	06/06/14 14:55	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2,4-Dinitrophenol	<0.83	*	0.83	0.72	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
4,6-Dinitro-2-methylphenol	<0.41	*	0.41	0.33	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B03

Lab Sample ID: 500-77578-11

Date Collected: 05/22/14 08:45

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	06/04/14 18:45	06/06/14 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110	06/04/14 18:45	06/06/14 14:55	1
Phenol-d5	41		31 - 110	06/04/14 18:45	06/06/14 14:55	1
Nitrobenzene-d5	39		25 - 115	06/04/14 18:45	06/06/14 14:55	1
2-Fluorobiphenyl	41		25 - 119	06/04/14 18:45	06/06/14 14:55	1
2,4,6-Tribromophenol	40		35 - 137	06/04/14 18:45	06/06/14 14:55	1
Terphenyl-d14	68		36 - 134	06/04/14 18:45	06/06/14 14:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Arsenic	7.8		0.61	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Barium	150		0.61	0.065	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Beryllium	0.61		0.24	0.049	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Boron	1.5 J		3.0	0.61	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Cadmium	0.18		0.12	0.015	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Calcium	4600		12	3.3	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Chromium	15		0.61	0.071	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Cobalt	9.3		0.30	0.061	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Copper	17		0.61	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Iron	18000		12	5.0	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Lead	10 B		0.30	0.091	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Magnesium	4400		6.1	1.3	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Manganese	700		0.61	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Nickel	24		0.61	0.12	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Potassium	640		30	1.8	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Selenium	0.51 J		0.61	0.22	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Sodium	260		61	8.2	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Thallium	1.6		0.61	0.26	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Vanadium	24		0.30	0.045	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1
Zinc	37		1.2	0.25	mg/Kg	☼	06/04/14 08:30	06/05/14 08:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.21		0.20	0.20	mg/L		06/16/14 11:00	06/16/14 21:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 11:00	06/16/14 21:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B03

Lab Sample ID: 500-77578-11

Date Collected: 05/22/14 08:45

Matrix: Solid

Date Received: 05/23/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 15:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 15:06	1
Boron	1.1		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 15:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/07/14 11:00	06/09/14 15:06	1
Chromium	0.020	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:06	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:06	1
Iron	14		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 15:06	1
Lead	0.014		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 15:06	1
Manganese	0.046		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:06	1
Nickel	0.026		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:06	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 15:06	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:06	1
Zinc	0.085	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/07/14 11:00	06/09/14 15:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 15:24	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		06/09/14 11:35	06/10/14 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.0080	mg/Kg	✪	06/02/14 15:30	06/03/14 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			06/09/14 14:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B04

Lab Sample ID: 500-77578-12

Date Collected: 05/22/14 08:35

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	05/22/14 08:35	05/30/14 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	05/22/14 08:35	05/30/14 19:14	1
Dibromofluoromethane	119		75 - 120	05/22/14 08:35	05/30/14 19:14	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	05/22/14 08:35	05/30/14 19:14	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 08:35	05/30/14 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B04

Lab Sample ID: 500-77578-12

Date Collected: 05/22/14 08:35

Matrix: Solid

Date Received: 05/23/14 12:20

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	<0.20		0.20	0.047	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.32	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B04

Lab Sample ID: 500-77578-12

Date Collected: 05/22/14 08:35

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 81.3

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	☼	06/04/14 18:45	06/06/14 15:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	06/04/14 18:45	06/06/14 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	06/04/14 18:45	06/06/14 15:14	1
Phenol-d5	47		31 - 110	06/04/14 18:45	06/06/14 15:14	1
Nitrobenzene-d5	49		25 - 115	06/04/14 18:45	06/06/14 15:14	1
2-Fluorobiphenyl	48		25 - 119	06/04/14 18:45	06/06/14 15:14	1
2,4,6-Tribromophenol	26 X		35 - 137	06/04/14 18:45	06/06/14 15:14	1
Terphenyl-d14	72		36 - 134	06/04/14 18:45	06/06/14 15:14	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	☼	06/04/14 08:30	06/05/14 08:35	1
Arsenic	6.9		0.57	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Barium	120		0.57	0.061	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Beryllium	0.62		0.23	0.046	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Boron	1.1 J		2.9	0.57	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Cadmium	0.085 J		0.11	0.015	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Calcium	2200		11	3.1	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Chromium	15		0.57	0.067	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Cobalt	5.1		0.29	0.057	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Copper	17		0.57	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Iron	18000		11	4.7	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Lead	7.9 B		0.29	0.086	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Magnesium	3000		5.7	1.2	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Manganese	390		0.57	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Nickel	17		0.57	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Potassium	630		29	1.7	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Selenium	0.75		0.57	0.20	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Sodium	250		57	7.7	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Thallium	0.97		0.57	0.24	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Vanadium	22		0.29	0.042	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1
Zinc	37		1.1	0.23	mg/Kg	☼	06/04/14 08:30	06/05/14 08:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/16/14 11:00	06/16/14 21:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 11:00	06/16/14 21:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B04

Lab Sample ID: 500-77578-12

Date Collected: 05/22/14 08:35

Matrix: Solid

Date Received: 05/23/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 15:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 15:10	1
Boron	1.5		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 15:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/07/14 11:00	06/09/14 15:10	1
Chromium	0.022	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:10	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:10	1
Iron	16		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 15:10	1
Lead	0.014		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 15:10	1
Manganese	0.058		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:10	1
Nickel	0.030		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:10	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 15:10	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:10	1
Zinc	0.091	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/07/14 11:00	06/09/14 15:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 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		06/09/14 11:35	06/10/14 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0079	mg/Kg	✱	06/02/14 15:30	06/03/14 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40		0.200	0.200	SU			06/09/14 14:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B05-1

Lab Sample ID: 500-77578-13

Date Collected: 05/22/14 08:10

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0017	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Benzene	<0.0038		0.0038	0.00052	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Bromodichloromethane	<0.0038		0.0038	0.00066	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Bromoform	<0.0038		0.0038	0.00088	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Bromomethane	<0.0038		0.0038	0.0012	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Carbon disulfide	<0.0038		0.0038	0.00057	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Carbon tetrachloride	<0.0038		0.0038	0.00070	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Chlorobenzene	<0.0038		0.0038	0.00039	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Chloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Chloroform	<0.0038		0.0038	0.00044	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Chloromethane	<0.0038		0.0038	0.00080	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00054	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00050	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Dibromochloromethane	<0.0038		0.0038	0.00067	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
1,1-Dichloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
1,1-Dichloroethene	<0.0038		0.0038	0.00062	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
1,2-Dichloropropane	<0.0038		0.0038	0.00058	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.00050	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Ethylbenzene	<0.0038		0.0038	0.00077	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
2-Hexanone	<0.0038		0.0038	0.0011	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Methylene Chloride	<0.0038		0.0038	0.0010	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0010	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00063	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Styrene	<0.0038		0.0038	0.00050	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
1,1,1,2-Tetrachloroethane	<0.0038		0.0038	0.00077	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Tetrachloroethene	<0.0038		0.0038	0.00058	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Toluene	<0.0038		0.0038	0.00054	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00053	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.00069	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00052	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Trichloroethene	<0.0038		0.0038	0.00063	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Vinyl acetate	<0.0038		0.0038	0.00060	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Vinyl chloride	<0.0038		0.0038	0.00080	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	05/22/14 08:10	05/30/14 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	05/22/14 08:10	05/30/14 19:36	1
Dibromofluoromethane	119		75 - 120	05/22/14 08:10	05/30/14 19:36	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	05/22/14 08:10	05/30/14 19:36	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 08:10	05/30/14 19:36	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	☼	06/04/14 18:45	06/06/14 16:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B05-1

Lab Sample ID: 500-77578-13

Date Collected: 05/22/14 08:10

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 85.7

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	☼	06/04/14 18:45	06/06/14 16:13	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2,4-Dinitrophenol	<0.75 *		0.75	0.65	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
4,6-Dinitro-2-methylphenol	<0.37 *		0.37	0.30	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B05-1

Lab Sample ID: 500-77578-13

Date Collected: 05/22/14 08:10

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 85.7

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	☼	06/04/14 18:45	06/06/14 16:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/04/14 18:45	06/06/14 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110				06/04/14 18:45	06/06/14 16:13	1
Phenol-d5	56		31 - 110				06/04/14 18:45	06/06/14 16:13	1
Nitrobenzene-d5	59		25 - 115				06/04/14 18:45	06/06/14 16:13	1
2-Fluorobiphenyl	58		25 - 119				06/04/14 18:45	06/06/14 16:13	1
2,4,6-Tribromophenol	41		35 - 137				06/04/14 18:45	06/06/14 16:13	1
Terphenyl-d14	85		36 - 134				06/04/14 18:45	06/06/14 16:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Arsenic	4.6		0.56	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Barium	35		0.56	0.059	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Beryllium	0.25		0.22	0.044	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Boron	4.1		2.8	0.56	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Cadmium	0.16		0.11	0.014	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Calcium	54000		11	3.0	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Chromium	6.9		0.56	0.064	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Cobalt	3.3		0.28	0.056	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Copper	10		0.56	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Iron	9000		11	4.6	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Lead	4.4 B		0.28	0.083	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Magnesium	33000		5.6	1.1	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Manganese	240		0.56	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Nickel	8.5		0.56	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Potassium	690		28	1.7	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Sodium	220		56	7.4	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Thallium	0.64		0.56	0.23	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Vanadium	12		0.28	0.041	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1
Zinc	23		1.1	0.22	mg/Kg	☼	06/04/14 08:30	06/05/14 08:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/16/14 11:00	06/16/14 21:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/16/14 11:00	06/16/14 21:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B05-1

Lab Sample ID: 500-77578-13

Date Collected: 05/22/14 08:10

Matrix: Solid

Date Received: 05/23/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.12	J	0.50	0.050	mg/L		06/07/14 11:00	06/09/14 15:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 15:14	1
Boron	1.2		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 15:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/07/14 11:00	06/09/14 15:14	1
Chromium	0.011	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:14	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:14	1
Iron	6.2		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 15:14	1
Lead	0.0080		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 15:14	1
Manganese	0.042		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:14	1
Nickel	0.019	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:14	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 15:14	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:14	1
Zinc	0.062	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/07/14 11:00	06/09/14 15:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/09/14 11:35	06/10/14 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.019	0.0075	mg/Kg	✱	06/02/14 15:30	06/03/14 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			06/09/14 14:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B05-2

Lab Sample ID: 500-77578-14

Date Collected: 05/22/14 08:15

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0037		0.0037	0.0016	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Benzene	<0.0037		0.0037	0.00051	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Bromodichloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Bromoform	<0.0037		0.0037	0.00086	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Carbon disulfide	<0.0037		0.0037	0.00056	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Carbon tetrachloride	<0.0037		0.0037	0.00068	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Chlorobenzene	<0.0037		0.0037	0.00038	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Chloroethane	<0.0037		0.0037	0.0010	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Chloroform	<0.0037		0.0037	0.00043	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Chloromethane	<0.0037		0.0037	0.00078	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00053	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00049	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Dibromochloromethane	<0.0037		0.0037	0.00065	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
1,1-Dichloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
1,1,1-Dichloroethane	<0.0037		0.0037	0.00060	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
1,2-Dichloropropane	<0.0037		0.0037	0.00056	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00049	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Ethylbenzene	<0.0037		0.0037	0.00075	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Methylene Chloride	<0.0037		0.0037	0.0010	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00097	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00061	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Styrene	<0.0037		0.0037	0.00049	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
1,1,1,2-Tetrachloroethane	<0.0037		0.0037	0.00075	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Tetrachloroethene	<0.0037		0.0037	0.00057	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00067	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00056	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00051	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Trichloroethene	<0.0037		0.0037	0.00061	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Vinyl acetate	<0.0037		0.0037	0.00058	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Vinyl chloride	<0.0037		0.0037	0.00078	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1
Xylenes, Total	<0.0074		0.0074	0.00034	mg/Kg	☼	05/22/14 08:15	05/30/14 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	05/22/14 08:15	05/30/14 19:59	1
Dibromofluoromethane	119		75 - 120	05/22/14 08:15	05/30/14 19:59	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	05/22/14 08:15	05/30/14 19:59	1
Toluene-d8 (Surr)	98		75 - 122	05/22/14 08:15	05/30/14 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B05-2

Lab Sample ID: 500-77578-14

Date Collected: 05/22/14 08:15

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 88.8

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	0.043	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2,4-Dinitrophenol	<0.72	*	0.72	0.63	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Acenaphthene	<0.036		0.036	0.0064	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
4,6-Dinitro-2-methylphenol	<0.36	*	0.36	0.29	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Fluoranthene	<0.036		0.036	0.0066	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Pyrene	<0.036		0.036	0.0071	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B05-2

Lab Sample ID: 500-77578-14

Date Collected: 05/22/14 08:15

Matrix: Solid

Date Received: 05/23/14 12:20

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	06/04/14 18:45	06/06/14 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110				06/04/14 18:45	06/06/14 16:32	1
Phenol-d5	56		31 - 110				06/04/14 18:45	06/06/14 16:32	1
Nitrobenzene-d5	61		25 - 115				06/04/14 18:45	06/06/14 16:32	1
2-Fluorobiphenyl	63		25 - 119				06/04/14 18:45	06/06/14 16:32	1
2,4,6-Tribromophenol	48		35 - 137				06/04/14 18:45	06/06/14 16:32	1
Terphenyl-d14	105		36 - 134				06/04/14 18:45	06/06/14 16:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Arsenic	4.0		0.55	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Barium	18		0.55	0.059	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Beryllium	0.19 J		0.22	0.044	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Boron	4.8		2.8	0.55	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Cadmium	0.17		0.11	0.014	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Calcium	90000		110	30	mg/Kg	☼	06/04/14 08:30	06/06/14 13:32	10
Chromium	5.3		0.55	0.064	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Cobalt	2.8		0.28	0.055	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Copper	9.2		0.55	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Iron	7700		11	4.5	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Lead	4.1 B		0.28	0.082	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Magnesium	39000		5.5	1.1	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Manganese	240		0.55	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Nickel	6.6		0.55	0.11	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Potassium	700		28	1.7	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Sodium	250		55	7.4	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Thallium	0.55		0.55	0.23	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Vanadium	9.0		0.28	0.041	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1
Zinc	22		1.1	0.22	mg/Kg	☼	06/04/14 08:30	06/05/14 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.068 J		0.50	0.050	mg/L		06/07/14 11:00	06/09/14 15:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/07/14 11:00	06/09/14 15:18	1
Boron	1.2		0.10	0.050	mg/L		06/07/14 11:00	06/09/14 15:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Client Sample ID: 2819-33-B05-2

Lab Sample ID: 500-77578-14

Date Collected: 05/22/14 08:15

Matrix: Solid

Date Received: 05/23/14 12:20

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		06/07/14 11:00	06/09/14 15:18	1
Chromium	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:18	1
Cobalt	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:18	1
Iron	0.23		0.20	0.20	mg/L		06/07/14 11:00	06/09/14 15:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/07/14 11:00	06/09/14 15:18	1
Manganese	0.018	J	0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:18	1
Nickel	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:18	1
Selenium	<0.050		0.050	0.010	mg/L		06/07/14 11:00	06/09/14 15:18	1
Silver	<0.025		0.025	0.010	mg/L		06/07/14 11:00	06/09/14 15:18	1
Zinc	0.049	J	0.10	0.020	mg/L		06/07/14 11:00	06/09/14 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/07/14 11:00	06/09/14 15:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/07/14 11:00	06/09/14 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/09/14 11:35	06/10/14 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0074	mg/Kg	☆	06/02/14 15:30	06/03/14 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU			06/09/14 14:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77578-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	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.

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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
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.		Project Name: <u>US30 Super Drive Home Co</u> Project No.: <u>IDOT 2013-074</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	
COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-77578</u> Sample Temp:		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	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization								
9	2819-33-B01	5/22	9:00	S	X	X						X	X	X										
10	2819-33-B02		9:50																					
11	2819-33-B03		8:45																					
12	2819-33-B04		8:35																					
13	2819-33-B05-1		8:10																					
14	2819-33-B05-2		8:15																					
	2819-33-B06-1																							
	2819-33-B06-2																							
	2819-33-B07																							
	2819-33-B08																							
	2819-33-B09																							
	2819-33-B10			S	X	X						X	X	X										
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time								
					5/22/14	Received by: <i>[Signature]</i>										5/22/14 1630								
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time								
					9:00 AM	Received by: <i>[Signature]</i>										5/23/14 1220								
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time								
					5/23/14 1214	Received by: <i>[Signature]</i>										5/23/14 1220								



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

44W546 US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76388 Longitude: -88.48311

(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

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

Project Name: FAP 573 (US 30)

Latitude: 41.76388 Longitude: -88.48311

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 2819-34-B01, -B03 AND -B04 WERE SAMPLED ADJACENT TO ISGS SITE 2819-34. SEE FIGURES 5 AND 6 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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77465-2

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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

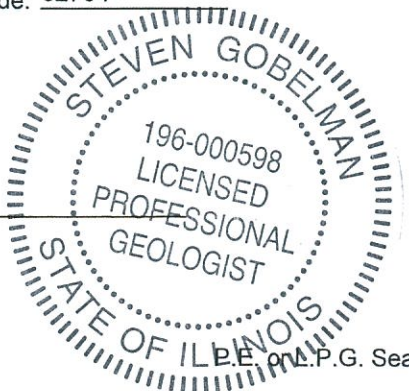
Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-34

Air Classics Inc.

Sample ID	2819-34-B01	2819-34-B03	2819-34-B03 DUP	2819-34-B04	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-2	0-2	0-2	0-2						
Sample Date	5/21/2014	5/21/2014	5/21/2014	5/21/2014						
PID	0	0	0	0						
Sample pH	7.79	7.7	7.61	8.02						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77465-2
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 9:07:36 AM

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

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

1

2

3

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B01

Lab Sample ID: 500-77465-11

Date Collected: 05/21/14 13:50

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.9

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	☼	05/22/14 17:45	05/30/14 03:56	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	05/22/14 17:45	05/30/14 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	05/22/14 17:45	05/30/14 03:56	1
Dibromofluoromethane	110		75 - 120	05/22/14 17:45	05/30/14 03:56	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	05/22/14 17:45	05/30/14 03:56	1
Toluene-d8 (Surr)	98		75 - 122	05/22/14 17:45	05/30/14 03:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B01

Lab Sample ID: 500-77465-11

Date Collected: 05/21/14 13:50

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.9

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	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
4-Nitroaniline	<0.42		0.42	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Pentachlorophenol	<0.84	*	0.84	0.67	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.34	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Fluoranthene	<0.042		0.042	0.0077	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B01

Lab Sample ID: 500-77465-11

Date Collected: 05/21/14 13:50

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	06/02/14 07:15	06/03/14 19:02	1
Phenol-d5	64		31 - 110	06/02/14 07:15	06/03/14 19:02	1
Nitrobenzene-d5	67		25 - 115	06/02/14 07:15	06/03/14 19:02	1
2-Fluorobiphenyl	64		25 - 119	06/02/14 07:15	06/03/14 19:02	1
2,4,6-Tribromophenol	89		35 - 137	06/02/14 07:15	06/03/14 19:02	1
Terphenyl-d14	81		36 - 134	06/02/14 07:15	06/03/14 19:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Arsenic	9.4		0.61	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Barium	100		0.61	0.065	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Beryllium	0.82		0.24	0.049	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Boron	3.8		3.0	0.61	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Cadmium	0.14		0.12	0.015	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Calcium	2400		12	3.3	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Chromium	20		0.61	0.070	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Cobalt	8.0		0.30	0.061	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Copper	19		0.61	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Iron	22000		12	5.0	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Lead	12 B		0.30	0.090	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Magnesium	3600		6.1	1.2	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Manganese	570		0.61	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Nickel	23		0.61	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Potassium	1100		30	1.8	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Selenium	0.82		0.61	0.22	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Sodium	1500		61	8.1	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Thallium	0.36 J		0.61	0.26	mg/Kg	☼	06/02/14 17:00	06/04/14 18:14	1
Vanadium	36		0.30	0.045	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1
Zinc	44 B		1.2	0.25	mg/Kg	☼	06/02/14 17:00	06/03/14 15:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/13/14 08:30	06/13/14 20:03	1
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:03	1
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 20:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B01

Lab Sample ID: 500-77465-11

Date Collected: 05/21/14 13:50

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.010		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 20:03	1
Manganese	0.023	J	0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:03	1
Nickel	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.050	mg/L		06/05/14 15:00	06/06/14 18:02	1
Beryllium	0.0082		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 18:02	1
Boron	0.14	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 18:02	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 18:02	1
Chromium	0.24		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:02	1
Cobalt	0.030		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:02	1
Iron	240		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 18:02	1
Lead	0.051		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 18:02	1
Manganese	0.91		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:02	1
Nickel	0.19		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:02	1
Selenium	0.013	J	0.050	0.010	mg/L		06/05/14 15:00	06/06/14 18:02	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:02	1
Zinc	0.52		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 18:02	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		06/13/14 08:30	06/16/14 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/05/14 15:00	06/06/14 16:02	1
Thallium	0.0028		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00054		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0075	mg/Kg	☼	05/28/14 14:30	05/29/14 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			05/28/14 15:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B03

Lab Sample ID: 500-77465-13

Date Collected: 05/21/14 13:25

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0096		0.0046	0.0020	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Chloroethane	<0.0046	*	0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1
Xylenes, Total	<0.0092		0.0092	0.00041	mg/Kg	☼	05/22/14 17:45	05/30/14 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	05/22/14 17:45	05/30/14 04:45	1
Dibromofluoromethane	110		75 - 120	05/22/14 17:45	05/30/14 04:45	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/22/14 17:45	05/30/14 04:45	1
Toluene-d8 (Surr)	102		75 - 122	05/22/14 17:45	05/30/14 04:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B03

Lab Sample ID: 500-77465-13

Date Collected: 05/21/14 13:25

Matrix: Solid

Date Received: 05/22/14 12:10

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	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Pentachlorophenol	<0.82	*	0.82	0.65	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Phenanthrene	0.0083	J	0.040	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Fluoranthene	0.022	J	0.040	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Pyrene	0.015	J	0.040	0.0080	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Benzo[a]anthracene	0.0095	J	0.040	0.0054	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B03

Lab Sample ID: 500-77465-13

Date Collected: 05/21/14 13:25

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.8

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	☼	06/02/14 07:15	06/03/14 19:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Benzo[b]fluoranthene	0.0098	J	0.040	0.0087	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
Benzo[g,h,i]perylene	0.014	J	0.040	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110	06/02/14 07:15	06/03/14 19:40	1
Phenol-d5	64		31 - 110	06/02/14 07:15	06/03/14 19:40	1
Nitrobenzene-d5	70		25 - 115	06/02/14 07:15	06/03/14 19:40	1
2-Fluorobiphenyl	71		25 - 119	06/02/14 07:15	06/03/14 19:40	1
2,4,6-Tribromophenol	96		35 - 137	06/02/14 07:15	06/03/14 19:40	1
Terphenyl-d14	75		36 - 134	06/02/14 07:15	06/03/14 19:40	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	☼	06/02/14 17:00	06/03/14 15:16	1
Arsenic	6.7		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Barium	80		0.57	0.061	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Beryllium	0.55		0.23	0.046	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Boron	4.6		2.9	0.57	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Cadmium	0.17		0.11	0.015	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Calcium	9800		11	3.1	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Chromium	15		0.57	0.066	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Cobalt	7.9		0.29	0.057	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Copper	16		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Iron	16000		11	4.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Lead	12	B	0.29	0.085	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Magnesium	7400		5.7	1.2	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Manganese	610		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Nickel	24		0.57	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Potassium	960		29	1.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Selenium	0.49	J	0.57	0.20	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Sodium	1200		57	7.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	06/02/14 17:00	06/04/14 18:24	1
Vanadium	27		0.29	0.042	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1
Zinc	38	B	1.1	0.23	mg/Kg	☼	06/02/14 17:00	06/03/14 15:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/13/14 08:30	06/13/14 20:13	1
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:13	1
Iron	0.31		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B03

Lab Sample ID: 500-77465-13

Date Collected: 05/21/14 13:25

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 20:13	1
Manganese	0.73		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:13	1
Nickel	0.026		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.85		0.50	0.050	mg/L		06/05/14 15:00	06/06/14 18:14	1
Beryllium	0.0052		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 18:14	1
Boron	0.11	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 18:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 18:14	1
Chromium	0.17		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:14	1
Cobalt	0.022	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:14	1
Iron	160		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 18:14	1
Lead	0.043		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 18:14	1
Manganese	0.60		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:14	1
Nickel	0.13		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:14	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 18:14	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:14	1
Zinc	0.40		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 18:14	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		06/13/14 08:30	06/16/14 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/05/14 15:00	06/06/14 16:19	1
Thallium	0.0021		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00044		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.0077	mg/Kg	☼	05/28/14 14:30	05/29/14 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			05/28/14 15:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B03 Dup

Lab Sample ID: 500-77465-14

Date Collected: 05/21/14 13:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.029		0.0051	0.0022	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
2-Butanone (MEK)	0.0065		0.0051	0.0019	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Chloroethane	<0.0051	*	0.0051	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/22/14 17:45	05/30/14 05:09	1
Dibromofluoromethane	108		75 - 120	05/22/14 17:45	05/30/14 05:09	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/22/14 17:45	05/30/14 05:09	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 05:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B03 Dup

Lab Sample ID: 500-77465-14

Date Collected: 05/21/14 13:30

Matrix: Solid

Date Received: 05/22/14 12:10

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	<0.20		0.20	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Pentachlorophenol	<0.81	*	0.81	0.65	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B03 Dup

Lab Sample ID: 500-77465-14

Date Collected: 05/21/14 13:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.9

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	☼	06/02/14 07:15	06/03/14 20:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110				06/02/14 07:15	06/03/14 20:00	1
Phenol-d5	56		31 - 110				06/02/14 07:15	06/03/14 20:00	1
Nitrobenzene-d5	66		25 - 115				06/02/14 07:15	06/03/14 20:00	1
2-Fluorobiphenyl	62		25 - 119				06/02/14 07:15	06/03/14 20:00	1
2,4,6-Tribromophenol	73		35 - 137				06/02/14 07:15	06/03/14 20:00	1
Terphenyl-d14	72		36 - 134				06/02/14 07:15	06/03/14 20:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Arsenic	6.8		0.58	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Barium	98		0.58	0.062	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Beryllium	0.50		0.23	0.046	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Boron	3.5		2.9	0.58	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Cadmium	0.20		0.12	0.015	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Calcium	7600		12	3.1	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Chromium	14		0.58	0.067	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Cobalt	7.7		0.29	0.058	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Copper	15		0.58	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Iron	15000		12	4.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Lead	11 B		0.29	0.086	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Magnesium	5900		5.8	1.2	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Manganese	590		0.58	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Nickel	20		0.58	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Potassium	790		29	1.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Selenium	0.54 J		0.58	0.20	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Sodium	1000		58	7.7	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Thallium	1.2		0.58	0.24	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Vanadium	25		0.29	0.043	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1
Zinc	36 B		1.2	0.23	mg/Kg	☼	06/02/14 17:00	06/03/14 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19 J		0.50	0.050	mg/L		06/05/14 15:00	06/06/14 18:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 18:20	1
Boron	1.1 B		0.10	0.050	mg/L		06/05/14 15:00	06/06/14 18:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B03 Dup

Lab Sample ID: 500-77465-14

Date Collected: 05/21/14 13:30

Matrix: Solid

Date Received: 05/22/14 12:10

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		06/05/14 15:00	06/06/14 18:20	1
Chromium	0.010	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:20	1
Cobalt	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:20	1
Iron	3.4		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 18:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 18:20	1
Manganese	0.030		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:20	1
Nickel	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:20	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 18:20	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:20	1
Zinc	0.038	J	0.10	0.020	mg/L		06/05/14 15:00	06/06/14 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/05/14 15:00	06/06/14 16:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:47	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		06/05/14 13:15	06/06/14 12:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.0079	mg/Kg	☆	05/28/14 14:30	05/29/14 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61		0.200	0.200	SU			05/28/14 15:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B04

Lab Sample ID: 500-77465-15

Date Collected: 05/21/14 13:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Chloroethane	<0.0041	*	0.0041	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
1,1,1-Dichloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	05/22/14 17:45	05/30/14 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/22/14 17:45	05/30/14 05:33	1
Dibromofluoromethane	105		75 - 120	05/22/14 17:45	05/30/14 05:33	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	05/22/14 17:45	05/30/14 05:33	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 05:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B04

Lab Sample ID: 500-77465-15

Date Collected: 05/21/14 13:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 88.3

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	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Pentachlorophenol	<0.73	*	0.73	0.58	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Phenanthrene	0.0067	J	0.036	0.0051	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Fluoranthene	0.012	J	0.036	0.0067	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Pyrene	0.012	J	0.036	0.0072	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Benzo[a]anthracene	0.0053	J	0.036	0.0049	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B04

Lab Sample ID: 500-77465-15

Date Collected: 05/21/14 13:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Bis(2-ethylhexyl) phthalate	0.21		0.18	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Benzo[b]fluoranthene	0.0079	J	0.036	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	06/02/14 07:15	06/03/14 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		25 - 110	06/02/14 07:15	06/03/14 20:19	1
Phenol-d5	39		31 - 110	06/02/14 07:15	06/03/14 20:19	1
Nitrobenzene-d5	44		25 - 115	06/02/14 07:15	06/03/14 20:19	1
2-Fluorobiphenyl	42		25 - 119	06/02/14 07:15	06/03/14 20:19	1
2,4,6-Tribromophenol	64		35 - 137	06/02/14 07:15	06/03/14 20:19	1
Terphenyl-d14	62		36 - 134	06/02/14 07:15	06/03/14 20:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Arsenic	5.1		0.53	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Barium	38		0.53	0.057	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Beryllium	0.46		0.21	0.042	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Boron	3.8		2.7	0.53	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Cadmium	0.15		0.11	0.013	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Calcium	11000		11	2.9	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Chromium	12		0.53	0.062	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Cobalt	3.4		0.27	0.053	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Copper	9.5		0.53	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Iron	13000		11	4.4	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Lead	8.2	B	0.27	0.079	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Magnesium	7100		5.3	1.1	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Manganese	150		0.53	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Nickel	13		0.53	0.11	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Potassium	1000		27	1.6	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Selenium	0.26	J	0.53	0.19	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Sodium	1200		53	7.1	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Thallium	0.60		0.53	0.22	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Vanadium	24		0.27	0.039	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1
Zinc	34	B	1.1	0.21	mg/Kg	☼	06/02/14 17:00	06/03/14 15:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.017		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 20:18	1
Manganese	2.8		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

Client Sample ID: 2819-34-B04

Lab Sample ID: 500-77465-15

Date Collected: 05/21/14 13:15

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 18:41	1
Boron	0.63	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 18:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:41	1
Cobalt	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:41	1
Iron	4.9		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 18:41	1
Lead	0.019		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 18:41	1
Manganese	0.19		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:41	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 18:41	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:41	1
Zinc	0.083	J	0.10	0.020	mg/L		06/05/14 15:00	06/06/14 18:41	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		06/05/14 15:00	06/06/14 16:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 13:51	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		06/05/14 13:15	06/06/14 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0068	mg/Kg	☆	05/28/14 14:30	05/29/14 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			05/28/14 15:37	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-2

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.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 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: US30 Sugar Shoe Kane Co
 Project No.: I DOT 2013-074
 TAT: 15 BD 10 BD 5 BD 2 BD Other _____
 Sampler: CP/cm

COC No.: 1 of 1
 Lab Job No.: 500-77465
 Sample Temp: _____

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

Comments

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES																
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization						
11	2819-34-B01	5/21	1:50	S	X	X					X	X	X	X	X						
12	2819-34-B02		1:35	S	X	X					X	X	X	X	X						
13	2819-34-B03		1:25	S	X	X					X	X	X	X	X						
14	2819-34-B03 DUP		1:30	S	X	X					X	X	X	X	X						
15	2819-34-B04		1:15	S	X	X					X	X	X	X	X						
16	2819-34-B05		1:05	S	X	X					X	X	X	X	X						

Relinquished by: _____
 Date/Time: 5/21/14 4:00

Relinquished by: JA-S22
 Date/Time: 5/22/14 09:25

Relinquished by: _____
 Date/Time: 5/21/14 12:10

Received by: B. [Signature]
 Date/Time: 5/21/14

Received by: [Signature]
 Date/Time: 5/22/14

Received by: [Signature]
 Date/Time: 5/22/14 12:10



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1990 US 30 (Southeast corner of Dugan Road and US 30)

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76340 Longitude: -88.48782
(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: FAP 573 (US 30)Latitude: 41.76340 Longitude: -88.48782Uncontaminated 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 2819-35-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO ISGS SITE 2819-35. SEE FIGURES 2 AND 5 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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77279-5

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.

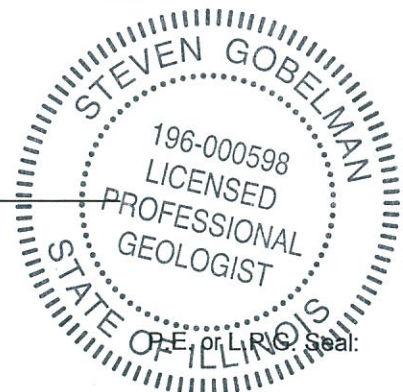
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 11/24/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-35
Collegiate Landscaping

Sample ID	2819-35-B01-1	2819-35-B01-2	2819-35-B02	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	8-14	0-4						
Sample Date	5/19/2014	5/19/2014	5/19/2014						
PID	0	0	0						
Sample pH	7.49	8.7	7.9						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

Sample ID	2819-35-B02 DUP	2819-35-B03	2819-35-B04	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	0-4						
Sample Date	5/19/2014	5/19/2014	5/19/2014						
PID	0	0	0						
Sample pH	7.58	7.68	7.41						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-77279-5

Client Project/Site: IDOT - US 30 - WO 074

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:

6/6/2014 2:22:52 PM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B01-1

Lab Sample ID: 500-77279-10

Date Collected: 05/19/14 11:20

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.9

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	☼	05/20/14 15:00	05/21/14 15:49	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	05/20/14 15:00	05/21/14 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	05/20/14 15:00	05/21/14 15:49	1
Dibromofluoromethane	116		75 - 120	05/20/14 15:00	05/21/14 15:49	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	05/20/14 15:00	05/21/14 15:49	1
Toluene-d8 (Surr)	103		75 - 122	05/20/14 15:00	05/21/14 15:49	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	☼	05/30/14 07:16	06/02/14 21:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B01-1

Lab Sample ID: 500-77279-10

Date Collected: 05/19/14 11:20

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.9

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	☼	05/30/14 07:16	06/02/14 21:36	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B01-1

Lab Sample ID: 500-77279-10

Date Collected: 05/19/14 11:20

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.9

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	☼	05/30/14 07:16	06/02/14 21:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110	05/30/14 07:16	06/02/14 21:36	1
Phenol-d5	47		31 - 110	05/30/14 07:16	06/02/14 21:36	1
Nitrobenzene-d5	40		25 - 115	05/30/14 07:16	06/02/14 21:36	1
2-Fluorobiphenyl	49		25 - 119	05/30/14 07:16	06/02/14 21:36	1
2,4,6-Tribromophenol	43		35 - 137	05/30/14 07:16	06/02/14 21:36	1
Terphenyl-d14	72		36 - 134	05/30/14 07:16	06/02/14 21:36	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	☼	05/28/14 08:15	05/28/14 23:56	1
Arsenic	6.9		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Barium	120		0.61	0.065	mg/Kg	☼	05/28/14 08:15	05/28/14 23:56	1
Beryllium	0.48		0.24	0.049	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Boron	0.76 J		3.1	0.61	mg/Kg	☼	05/28/14 08:15	05/28/14 23:56	1
Cadmium	0.17		0.12	0.016	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Calcium	2700		12	3.3	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Chromium	15		0.61	0.071	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Cobalt	5.5		0.31	0.061	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Copper	14		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Iron	17000		12	5.0	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Lead	10 B		0.31	0.091	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Magnesium	3200		6.1	1.3	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Manganese	310		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Nickel	12		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Potassium	570		31	1.8	mg/Kg	☼	05/28/14 08:15	05/28/14 23:56	1
Selenium	1.3		0.61	0.22	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	05/28/14 08:15	05/28/14 23:56	1
Sodium	450		61	8.2	mg/Kg	☼	05/28/14 08:15	05/28/14 23:56	1
Thallium	0.89		0.61	0.26	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Vanadium	19		0.31	0.045	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1
Zinc	37		1.2	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 17:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 18:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B01-1

Lab Sample ID: 500-77279-10

Date Collected: 05/19/14 11:20

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 05:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 05:10	1
Boron	0.52		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 05:10	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 05:10	1
Chromium	0.021	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:10	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:10	1
Iron	17		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 05:10	1
Lead	0.012		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:13	1
Manganese	0.063		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:10	1
Nickel	0.013	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:10	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 05:10	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:10	1
Zinc	0.093	J B	0.10	0.020	mg/L		05/28/14 07:00	05/29/14 05:10	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		05/28/14 07:00	05/29/14 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 17:35	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		05/28/14 17:15	05/29/14 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0078	mg/Kg	☆	05/22/14 14:30	05/23/14 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.49		0.200	0.200	SU			05/23/14 14:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B01-2

Lab Sample ID: 500-77279-11

Date Collected: 05/19/14 11:25

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0017	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Benzene	<0.0038		0.0038	0.00053	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Bromodichloromethane	<0.0038		0.0038	0.00066	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Bromoform	<0.0038		0.0038	0.00088	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Bromomethane	<0.0038		0.0038	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Carbon disulfide	<0.0038		0.0038	0.00057	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Carbon tetrachloride	<0.0038		0.0038	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Chlorobenzene	<0.0038		0.0038	0.00039	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Chloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Chloroform	<0.0038		0.0038	0.00044	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Chloromethane	<0.0038		0.0038	0.00081	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00054	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00050	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Dibromochloromethane	<0.0038		0.0038	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
1,1-Dichloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
1,1-Dichloroethene	<0.0038		0.0038	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
1,2-Dichloropropane	<0.0038		0.0038	0.00058	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.00050	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Ethylbenzene	<0.0038		0.0038	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
2-Hexanone	<0.0038		0.0038	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Methylene Chloride	<0.0038		0.0038	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Styrene	<0.0038		0.0038	0.00050	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
1,1,1,2-Tetrachloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Tetrachloroethene	<0.0038		0.0038	0.00059	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Toluene	<0.0038		0.0038	0.00054	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00053	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00052	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Trichloroethene	<0.0038		0.0038	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Vinyl acetate	<0.0038		0.0038	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Vinyl chloride	<0.0038		0.0038	0.00081	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	05/20/14 15:00	05/21/14 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	05/20/14 15:00	05/21/14 16:12	1
Dibromofluoromethane	111		75 - 120	05/20/14 15:00	05/21/14 16:12	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	05/20/14 15:00	05/21/14 16:12	1
Toluene-d8 (Surr)	105		75 - 122	05/20/14 15:00	05/21/14 16:12	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	☼	05/30/14 07:16	06/03/14 14:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B01-2

Lab Sample ID: 500-77279-11

Date Collected: 05/19/14 11:25

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 85.7

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	0.045	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Fluoranthene	0.011	J	0.038	0.0070	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Pyrene	0.017	J	0.038	0.0075	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Benzo[a]anthracene	0.0075	J	0.038	0.0051	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B01-2

Lab Sample ID: 500-77279-11

Date Collected: 05/19/14 11:25

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Benzo[b]fluoranthene	0.017	J	0.038	0.0082	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Benzo[a]pyrene	0.012	J	0.038	0.0073	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/30/14 07:16	06/03/14 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		25 - 110	05/30/14 07:16	06/03/14 14:19	1
Phenol-d5	48		31 - 110	05/30/14 07:16	06/03/14 14:19	1
Nitrobenzene-d5	50		25 - 115	05/30/14 07:16	06/03/14 14:19	1
2-Fluorobiphenyl	55		25 - 119	05/30/14 07:16	06/03/14 14:19	1
2,4,6-Tribromophenol	43		35 - 137	05/30/14 07:16	06/03/14 14:19	1
Terphenyl-d14	90		36 - 134	05/30/14 07:16	06/03/14 14:19	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	☼	05/28/14 08:15	05/29/14 00:02	1
Arsenic	4.4		0.56	0.11	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Barium	60		0.56	0.060	mg/Kg	☼	05/28/14 08:15	05/29/14 00:02	1
Beryllium	0.28		0.23	0.045	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Boron	3.7		2.8	0.56	mg/Kg	☼	05/28/14 08:15	05/29/14 00:02	1
Cadmium	0.24		0.11	0.014	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Calcium	50000		11	3.1	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Chromium	7.5		0.56	0.065	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Cobalt	4.1		0.28	0.056	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Copper	11		0.56	0.11	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Iron	9600		11	4.6	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Lead	7.5		0.28	0.083	mg/Kg	☼	05/30/14 16:00	06/02/14 13:10	1
Magnesium	31000		5.6	1.2	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Manganese	330		0.56	0.11	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Nickel	15		0.56	0.11	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Potassium	740		28	1.7	mg/Kg	☼	05/28/14 08:15	05/29/14 00:02	1
Selenium	0.36	J	0.56	0.20	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/28/14 08:15	05/29/14 00:02	1
Sodium	290		56	7.5	mg/Kg	☼	05/28/14 08:15	05/29/14 00:02	1
Thallium	0.80		0.56	0.24	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Vanadium	14		0.28	0.042	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1
Zinc	25		1.1	0.23	mg/Kg	☼	05/28/14 08:15	05/29/14 17:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 18:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B01-2

Lab Sample ID: 500-77279-11

Date Collected: 05/19/14 11:25

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 05:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 05:16	1
Boron	0.58		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 05:16	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 05:16	1
Chromium	0.029		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:16	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:16	1
Iron	25		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 05:16	1
Lead	0.086		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:17	1
Manganese	0.14		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:16	1
Nickel	0.026		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:16	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 05:16	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:16	1
Zinc	0.075	J	0.10	0.020	mg/L		06/03/14 09:30	06/03/14 18:17	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		05/28/14 07:00	05/29/14 17:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 17:39	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		05/28/14 17:15	05/29/14 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0069	mg/Kg	✱	05/22/14 14:30	05/23/14 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			05/23/14 14:50	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B02

Lab Sample ID: 500-77279-12

Date Collected: 05/19/14 11:30

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	05/20/14 15:00	05/22/14 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	05/20/14 15:00	05/22/14 12:42	1
Dibromofluoromethane	114		75 - 120	05/20/14 15:00	05/22/14 12:42	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	05/20/14 15:00	05/22/14 12:42	1
Toluene-d8 (Surr)	106		75 - 122	05/20/14 15:00	05/22/14 12:42	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	☼	05/30/14 07:16	06/02/14 15:54	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B02

Lab Sample ID: 500-77279-12

Date Collected: 05/19/14 11:30

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.1

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	☼	05/30/14 07:16	06/02/14 15:54	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Hexachlorocyclopentadiene	<0.82		0.82	0.24	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B02

Lab Sample ID: 500-77279-12

Date Collected: 05/19/14 11:30

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110				05/30/14 07:16	06/02/14 15:54	1
Phenol-d5	57		31 - 110				05/30/14 07:16	06/02/14 15:54	1
Nitrobenzene-d5	52		25 - 115				05/30/14 07:16	06/02/14 15:54	1
2-Fluorobiphenyl	55		25 - 119				05/30/14 07:16	06/02/14 15:54	1
2,4,6-Tribromophenol	43		35 - 137				05/30/14 07:16	06/02/14 15:54	1
Terphenyl-d14	59		36 - 134				05/30/14 07:16	06/02/14 15:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.2	0.47	mg/Kg	☼	05/28/14 08:15	05/29/14 00:08	1
Arsenic	8.5		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Barium	87		0.58	0.062	mg/Kg	☼	05/28/14 08:15	05/29/14 00:08	1
Beryllium	0.57		0.23	0.046	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Boron	2.0	J	2.9	0.58	mg/Kg	☼	05/28/14 08:15	05/29/14 00:08	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	05/28/14 08:15	05/30/14 12:51	1
Calcium	2100		12	3.1	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Chromium	18		0.58	0.067	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Cobalt	5.7		0.29	0.058	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Copper	18		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Iron	20000		12	4.8	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Lead	11	B	0.29	0.086	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Magnesium	3200		5.8	1.2	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Manganese	290		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Nickel	15		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Potassium	930		29	1.7	mg/Kg	☼	05/28/14 08:15	05/29/14 00:08	1
Selenium	1.4		0.58	0.21	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/28/14 08:15	05/29/14 00:08	1
Sodium	1700		58	7.8	mg/Kg	☼	05/28/14 08:15	05/29/14 00:08	1
Thallium	1.1		0.58	0.24	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Vanadium	30		0.29	0.043	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1
Zinc	42		1.2	0.23	mg/Kg	☼	05/28/14 08:15	05/29/14 17:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/04/14 09:15	06/04/14 18:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:15	06/04/14 18:31	1
Chromium	<0.025		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B02

Lab Sample ID: 500-77279-12

Date Collected: 05/19/14 11:30

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 18:31	1
Manganese	0.023	J	0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:31	1
Nickel	<0.025		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80		0.50	0.050	mg/L		05/28/14 07:00	05/29/14 05:22	1
Beryllium	0.0066		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 05:22	1
Boron	0.43		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 05:22	1
Cadmium	0.028		0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 05:22	1
Chromium	0.21		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:22	1
Cobalt	0.030		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:22	1
Iron	220		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 05:22	1
Lead	0.062		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:21	1
Manganese	0.97		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:22	1
Nickel	0.13		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:22	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 05:22	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:22	1
Zinc	0.25		0.10	0.020	mg/L		06/03/14 09:30	06/03/14 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		05/28/14 07:00	05/29/14 17:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00059		0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.018	0.0072	mg/Kg	☼	05/22/14 14:30	05/23/14 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			05/23/14 14:52	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B02 Dup

Lab Sample ID: 500-77279-13

Date Collected: 05/19/14 11:35

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 79.5

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	☼	05/20/14 15:00	05/21/14 16:58	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	05/20/14 15:00	05/21/14 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	05/20/14 15:00	05/21/14 16:58	1
Dibromofluoromethane	116		75 - 120	05/20/14 15:00	05/21/14 16:58	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	05/20/14 15:00	05/21/14 16:58	1
Toluene-d8 (Surr)	100		75 - 122	05/20/14 15:00	05/21/14 16:58	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	☼	05/30/14 07:16	06/02/14 16:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B02 Dup

Lab Sample ID: 500-77279-13

Date Collected: 05/19/14 11:35

Matrix: Solid

Date Received: 05/20/14 10:25

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	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Fluoranthene	<0.040		0.040	0.0076	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B02 Dup

Lab Sample ID: 500-77279-13

Date Collected: 05/19/14 11:35

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 79.5

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	☼	05/30/14 07:16	06/02/14 16:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	05/30/14 07:16	06/02/14 16:14	1
Phenol-d5	61		31 - 110	05/30/14 07:16	06/02/14 16:14	1
Nitrobenzene-d5	55		25 - 115	05/30/14 07:16	06/02/14 16:14	1
2-Fluorobiphenyl	59		25 - 119	05/30/14 07:16	06/02/14 16:14	1
2,4,6-Tribromophenol	51		35 - 137	05/30/14 07:16	06/02/14 16:14	1
Terphenyl-d14	63		36 - 134	05/30/14 07:16	06/02/14 16:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.50	mg/Kg	☼	05/28/14 08:15	05/29/14 00:14	1
Arsenic	7.4		0.63	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Barium	95		0.63	0.067	mg/Kg	☼	05/28/14 08:15	05/29/14 00:14	1
Beryllium	0.55		0.25	0.050	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Boron	2.2 J		3.1	0.63	mg/Kg	☼	05/28/14 08:15	05/29/14 00:14	1
Cadmium	<0.13		0.13	0.016	mg/Kg	☼	05/28/14 08:15	05/30/14 12:56	1
Calcium	2000		13	3.4	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Chromium	19		0.63	0.073	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Cobalt	9.0		0.31	0.063	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Copper	19		0.63	0.13	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Iron	20000		13	5.1	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Lead	12 B		0.31	0.093	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Magnesium	3300		6.3	1.3	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Manganese	360		0.63	0.13	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Nickel	16		0.63	0.13	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Potassium	960		31	1.9	mg/Kg	☼	05/28/14 08:15	05/29/14 00:14	1
Selenium	1.4		0.63	0.22	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	05/28/14 08:15	05/29/14 00:14	1
Sodium	1900		63	8.4	mg/Kg	☼	05/28/14 08:15	05/29/14 00:14	1
Thallium	1.0		0.63	0.26	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Vanadium	31		0.31	0.046	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1
Zinc	43		1.3	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 17:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/04/14 09:15	06/04/14 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:15	06/04/14 18:36	1
Chromium	<0.025		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B02 Dup

Lab Sample ID: 500-77279-13

Date Collected: 05/19/14 11:35

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:36	1
Manganese	0.019	J	0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		05/28/14 07:00	05/29/14 05:29	1
Beryllium	0.0052		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 05:29	1
Boron	0.45		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 05:29	1
Cadmium	0.021		0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 05:29	1
Chromium	0.16		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:29	1
Cobalt	0.023	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:29	1
Iron	160		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 05:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:24	1
Manganese	0.79		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:29	1
Nickel	0.10		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:29	1
Selenium	0.010	J	0.050	0.010	mg/L		05/28/14 07:00	05/29/14 05:29	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:29	1
Zinc	0.035	J	0.10	0.020	mg/L		06/03/14 09:30	06/03/14 18:24	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		06/04/14 09:15	06/04/14 15:48	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		05/28/14 07:00	05/29/14 17:55	1
Thallium	0.0021		0.0020	0.0020	mg/L		05/28/14 07:00	05/30/14 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00037		0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.018	0.0071	mg/Kg	☼	05/22/14 14:30	05/23/14 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU			05/23/14 14:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B03

Lab Sample ID: 500-77279-14

Date Collected: 05/19/14 11:55

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	05/20/14 15:00	05/21/14 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	05/20/14 15:00	05/21/14 17:20	1
Dibromofluoromethane	117		75 - 120	05/20/14 15:00	05/21/14 17:20	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	05/20/14 15:00	05/21/14 17:20	1
Toluene-d8 (Surr)	103		75 - 122	05/20/14 15:00	05/21/14 17:20	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	☼	05/30/14 07:16	06/02/14 21:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B03

Lab Sample ID: 500-77279-14

Date Collected: 05/19/14 11:55

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 81.6

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	☼	05/30/14 07:16	06/02/14 21:16	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Pyrene	0.0082	J	0.039	0.0078	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B03

Lab Sample ID: 500-77279-14

Date Collected: 05/19/14 11:55

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 81.6

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	☼	05/30/14 07:16	06/02/14 21:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	05/30/14 07:16	06/02/14 21:16	1
Phenol-d5	59		31 - 110	05/30/14 07:16	06/02/14 21:16	1
Nitrobenzene-d5	51		25 - 115	05/30/14 07:16	06/02/14 21:16	1
2-Fluorobiphenyl	57		25 - 119	05/30/14 07:16	06/02/14 21:16	1
2,4,6-Tribromophenol	41		35 - 137	05/30/14 07:16	06/02/14 21:16	1
Terphenyl-d14	130		36 - 134	05/30/14 07:16	06/02/14 21:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.47	mg/Kg	☼	05/28/14 08:15	05/29/14 00:35	1
Arsenic	8.3		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Barium	130		0.58	0.063	mg/Kg	☼	05/28/14 08:15	05/29/14 00:35	1
Beryllium	0.64		0.23	0.047	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Boron	2.7	J	2.9	0.58	mg/Kg	☼	05/28/14 08:15	05/29/14 00:35	1
Cadmium	0.016	J	0.12	0.015	mg/Kg	☼	05/28/14 08:15	05/30/14 13:01	1
Calcium	2800		12	3.2	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Chromium	16		0.58	0.068	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Cobalt	8.5		0.29	0.058	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Copper	17		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Iron	19000		12	4.8	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Lead	15	B	0.29	0.087	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Magnesium	3300		5.8	1.2	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Manganese	600		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Nickel	16		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Potassium	1100		29	1.8	mg/Kg	☼	05/28/14 08:15	05/29/14 00:35	1
Selenium	1.3		0.58	0.21	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/28/14 08:15	05/29/14 00:35	1
Sodium	1600		58	7.8	mg/Kg	☼	05/28/14 08:15	05/29/14 00:35	1
Thallium	1.3		0.58	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Vanadium	29		0.29	0.043	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1
Zinc	44		1.2	0.24	mg/Kg	☼	05/28/14 08:15	05/29/14 18:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/04/14 09:15	06/04/14 18:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:15	06/04/14 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B03

Lab Sample ID: 500-77279-14

Date Collected: 05/19/14 11:55

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 18:41	1
Manganese	0.53		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		05/28/14 07:00	05/29/14 05:35	1
Beryllium	0.0057		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 05:35	1
Boron	0.83		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 05:35	1
Cadmium	0.020		0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 05:35	1
Chromium	0.15		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:35	1
Cobalt	0.027		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:35	1
Iron	150		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 05:35	1
Lead	0.035		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:28	1
Manganese	1.5		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:35	1
Nickel	0.11		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:35	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 05:35	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:35	1
Zinc	0.11		0.10	0.020	mg/L		06/03/14 09:30	06/03/14 18:28	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		05/28/14 07:00	05/29/14 17:58	1
Thallium	0.0020	^	0.0020	0.0020	mg/L		05/28/14 07:00	05/29/14 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 15:12	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	0.029		0.019	0.0075	mg/Kg	☼	05/22/14 14:30	05/23/14 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.68		0.200	0.200	SU			05/23/14 14:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B04

Lab Sample ID: 500-77279-15

Date Collected: 05/19/14 12:00

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.9

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	☼	05/20/14 15:00	05/22/14 13:05	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	05/20/14 15:00	05/22/14 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	05/20/14 15:00	05/22/14 13:05	1
Dibromofluoromethane	108		75 - 120	05/20/14 15:00	05/22/14 13:05	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	05/20/14 15:00	05/22/14 13:05	1
Toluene-d8 (Surr)	101		75 - 122	05/20/14 15:00	05/22/14 13:05	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	☼	05/30/14 07:16	06/02/14 16:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B04

Lab Sample ID: 500-77279-15

Date Collected: 05/19/14 12:00

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.9

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	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B04

Lab Sample ID: 500-77279-15

Date Collected: 05/19/14 12:00

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.9

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	☼	05/30/14 07:16	06/02/14 16:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	05/30/14 07:16	06/02/14 16:34	1
Phenol-d5	57		31 - 110	05/30/14 07:16	06/02/14 16:34	1
Nitrobenzene-d5	52		25 - 115	05/30/14 07:16	06/02/14 16:34	1
2-Fluorobiphenyl	57		25 - 119	05/30/14 07:16	06/02/14 16:34	1
2,4,6-Tribromophenol	55		35 - 137	05/30/14 07:16	06/02/14 16:34	1
Terphenyl-d14	60		36 - 134	05/30/14 07:16	06/02/14 16:34	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	☼	05/28/14 08:15	05/29/14 00:41	1
Arsenic	7.1		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Barium	160		0.58	0.062	mg/Kg	☼	05/28/14 08:15	05/29/14 00:41	1
Beryllium	0.62		0.23	0.047	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Boron	2.4 J		2.9	0.58	mg/Kg	☼	05/28/14 08:15	05/29/14 00:41	1
Cadmium	0.027 J		0.12	0.015	mg/Kg	☼	05/28/14 08:15	05/30/14 13:05	1
Calcium	2400		12	3.2	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Chromium	16		0.58	0.068	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Cobalt	9.2		0.29	0.058	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Copper	12		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Iron	17000		12	4.8	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Lead	12 B		0.29	0.087	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Magnesium	2500		5.8	1.2	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Manganese	790		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Nickel	13		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Potassium	850		29	1.8	mg/Kg	☼	05/28/14 08:15	05/29/14 00:41	1
Selenium	1.4		0.58	0.21	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/28/14 08:15	05/29/14 00:41	1
Sodium	1400		58	7.8	mg/Kg	☼	05/28/14 08:15	05/29/14 00:41	1
Thallium	1.4		0.58	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Vanadium	28		0.29	0.043	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1
Zinc	40		1.2	0.24	mg/Kg	☼	05/28/14 08:15	05/29/14 18:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:15	06/04/14 18:46	1
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

Client Sample ID: 2819-35-B04

Lab Sample ID: 500-77279-15

Date Collected: 05/19/14 12:00

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.028		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 05:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 05:56	1
Boron	0.43		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 05:56	1
Cadmium	0.0077		0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 05:56	1
Chromium	0.064		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:56	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:56	1
Iron	62		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 05:56	1
Lead	0.0097		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:32	1
Manganese	0.40		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:56	1
Nickel	0.041		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:56	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 05:56	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 05:56	1
Zinc	0.052	J	0.10	0.020	mg/L		06/03/14 09:30	06/03/14 18:32	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		05/28/14 07:00	05/29/14 18:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 18:00	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		05/28/14 17:15	05/29/14 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0071	mg/Kg	☼	05/22/14 14:30	05/23/14 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.41		0.200	0.200	SU			05/23/14 14:56	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-5

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



CHAIN OF CUSTODY RECORD

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Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory 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>US 30 Sugar House Kane Co</u> Project No.: <u>IDOT 2013-074</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/cm</u>		COC No.: <u> </u> of <u> </u> Lab Job No.: <u>500-77279</u> Sample Temp: <u> </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														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
10	2819-35-B01-1	5/19	11:20	S	X	X					X	X	X	X		0-8
11	2819-35-B01-2		11:25	S	X	X					X	X	X	X		8-14
12	2819-35-B02		11:30	S	X	X					X	X	X	X		0-4
13	2819-35-B02 DUP		11:35	S	X	X					X	X	X	X		0-4
14	2819-35-B03		11:55	S	X	X					X	X	X	X		0-4
15	2819-35-B04		12:00	S	X	X					X	X	X	X		0-7
Relinquished by: <u>[Signature]</u>		Date/Time	5/19/14		1:00	Received by: <u>[Signature]</u>		5/24/16/18								
Relinquished by: <u>[Signature]</u>		Date/Time	5/20/14		10:25	Received by: <u>[Signature]</u>		5/20/14 10:25								
Relinquished by: <u>[Signature]</u>		Date/Time				Received by: <u>[Signature]</u>										



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
1980 US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76344 Longitude: -88.48644
(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: 0890855011 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: FAP 573 (US 30)

Latitude: 41.76344 Longitude: -88.48644

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 2819-36-B01 WAS SAMPLED ADJACENT TO ISGS SITE 2819-36. SEE FIGURE 5 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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77279-6

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: IDOT Bureau of Design and Environment

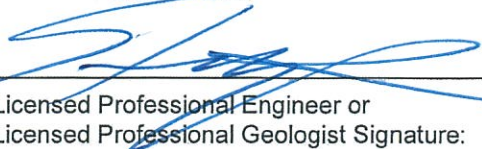
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

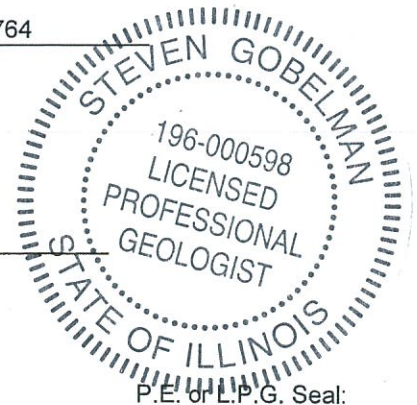
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/21/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-36
Commercial Building

Sample ID	2819-36-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)	0-3.5						
Sample Date	5/19/2014						
PID	0						
Sample pH	7.55						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-77279-6

Client Project/Site: IDOT - US 30 - WO 074

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:

6/6/2014 2:24:13 PM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-6

Client Sample ID: 2819-36-B01

Lab Sample ID: 500-77279-16

Date Collected: 05/19/14 13:40

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.4

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	☼	05/20/14 15:00	05/22/14 13:28	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/20/14 15:00	05/22/14 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	05/20/14 15:00	05/22/14 13:28	1
Dibromofluoromethane	113		75 - 120	05/20/14 15:00	05/22/14 13:28	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	05/20/14 15:00	05/22/14 13:28	1
Toluene-d8 (Surr)	103		75 - 122	05/20/14 15:00	05/22/14 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-6

Client Sample ID: 2819-36-B01

Lab Sample ID: 500-77279-16

Date Collected: 05/19/14 13:40

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.4

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	☼	05/30/14 07:16	06/02/14 16:55	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-6

Client Sample ID: 2819-36-B01

Lab Sample ID: 500-77279-16

Date Collected: 05/19/14 13:40

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.4

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	☼	05/30/14 07:16	06/02/14 16:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	05/30/14 07:16	06/02/14 16:55	1
Phenol-d5	59		31 - 110	05/30/14 07:16	06/02/14 16:55	1
Nitrobenzene-d5	54		25 - 115	05/30/14 07:16	06/02/14 16:55	1
2-Fluorobiphenyl	58		25 - 119	05/30/14 07:16	06/02/14 16:55	1
2,4,6-Tribromophenol	56		35 - 137	05/30/14 07:16	06/02/14 16:55	1
Terphenyl-d14	64		36 - 134	05/30/14 07:16	06/02/14 16:55	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	☼	05/28/14 08:15	05/29/14 00:48	1
Arsenic	8.3		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Barium	140		0.61	0.066	mg/Kg	☼	05/28/14 08:15	05/29/14 00:48	1
Beryllium	0.66		0.25	0.049	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Boron	2.6 J		3.1	0.61	mg/Kg	☼	05/28/14 08:15	05/29/14 00:48	1
Cadmium	0.033 J		0.12	0.016	mg/Kg	☼	05/28/14 08:15	05/30/14 13:10	1
Calcium	2500		12	3.3	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Chromium	18		0.61	0.071	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Cobalt	11		0.31	0.061	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Copper	13		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Iron	20000		12	5.0	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Lead	14 B		0.31	0.091	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Magnesium	3300		6.1	1.3	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Manganese	810		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Nickel	14		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Potassium	940		31	1.8	mg/Kg	☼	05/28/14 08:15	05/29/14 00:48	1
Selenium	1.7		0.61	0.22	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	05/28/14 08:15	05/29/14 00:48	1
Sodium	210		61	8.2	mg/Kg	☼	05/28/14 08:15	05/29/14 00:48	1
Thallium	1.6		0.61	0.26	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Vanadium	33		0.31	0.045	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1
Zinc	44		1.2	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 18:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 18:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-6

Client Sample ID: 2819-36-B01

Lab Sample ID: 500-77279-16

Date Collected: 05/19/14 13:40

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 06:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 06:02	1
Boron	1.0		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 06:02	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 06:02	1
Chromium	0.030		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:02	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:02	1
Iron	22		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 06:02	1
Lead	0.011		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:36	1
Manganese	0.084		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:02	1
Nickel	0.018	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:02	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 06:02	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:02	1
Zinc	0.064	J	0.10	0.020	mg/L		06/03/14 09:30	06/03/14 18:36	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		05/28/14 07:00	05/29/14 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 18:03	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		05/28/14 17:15	05/29/14 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.021	0.0083	mg/Kg	✱	05/22/14 14:30	05/23/14 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.55		0.200	0.200	SU			05/23/14 14:58	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-6

Qualifiers

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.
B	Compound was found in the blank and sample.

Glossary

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



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1970 US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76347 Longitude: -88.48599
(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

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

Project Name: FAP 573 (US 30)

Latitude: 41.76347 Longitude: -88.48599

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 2819-37-B01 WAS SAMPLED ADJACENT TO ISGS SITE 2819-37. SEE FIGURE 5 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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77279-7

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: IDOT Bureau of Design and Environment

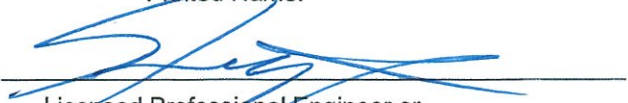
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

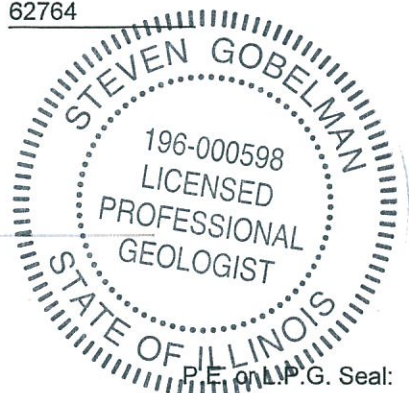
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/24/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

**ISGS Site 2819-37
Commercial Building**

Sample ID	2819-37-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)	0-2						
Sample Date	5/19/2014						
PID	0						
Sample pH	7.72						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77279-7
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:
6/6/2014 2:25:38 PM
Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com
Designee for
Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

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www.testamericainc.com

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

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

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

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-7

Client Sample ID: 2819-37-B01

Lab Sample ID: 500-77279-17

Date Collected: 05/19/14 13:45

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 77.8

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	☼	05/20/14 15:00	05/21/14 18:29	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/20/14 15:00	05/21/14 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 122	05/20/14 15:00	05/21/14 18:29	1
Dibromofluoromethane	110		75 - 120	05/20/14 15:00	05/21/14 18:29	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	05/20/14 15:00	05/21/14 18:29	1
Toluene-d8 (Surr)	105		75 - 122	05/20/14 15:00	05/21/14 18:29	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	☼	05/30/14 07:16	06/02/14 17:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-7

Client Sample ID: 2819-37-B01

Lab Sample ID: 500-77279-17

Date Collected: 05/19/14 13:45

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 77.8

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	☼	05/30/14 07:16	06/02/14 17:15	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-7

Client Sample ID: 2819-37-B01

Lab Sample ID: 500-77279-17

Date Collected: 05/19/14 13:45

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 77.8

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	☼	05/30/14 07:16	06/02/14 17:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	05/30/14 07:16	06/02/14 17:15	1
Phenol-d5	57		31 - 110	05/30/14 07:16	06/02/14 17:15	1
Nitrobenzene-d5	53		25 - 115	05/30/14 07:16	06/02/14 17:15	1
2-Fluorobiphenyl	56		25 - 119	05/30/14 07:16	06/02/14 17:15	1
2,4,6-Tribromophenol	54		35 - 137	05/30/14 07:16	06/02/14 17:15	1
Terphenyl-d14	60		36 - 134	05/30/14 07:16	06/02/14 17:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.48	mg/Kg	☼	05/28/14 08:15	05/29/14 00:54	1
Arsenic	8.8		0.60	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Barium	160		0.60	0.064	mg/Kg	☼	05/28/14 08:15	05/29/14 00:54	1
Beryllium	0.78		0.24	0.048	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Boron	2.2	J	3.0	0.60	mg/Kg	☼	05/28/14 08:15	05/29/14 00:54	1
Cadmium	0.046	J	0.12	0.015	mg/Kg	☼	05/28/14 08:15	05/30/14 13:15	1
Calcium	3400		12	3.2	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Chromium	20		0.60	0.069	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Cobalt	9.3		0.30	0.060	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Copper	18		0.60	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Iron	23000		12	4.9	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Lead	13	B	0.30	0.089	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Magnesium	3900		6.0	1.2	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Manganese	830		0.60	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Nickel	21		0.60	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Potassium	950		30	1.8	mg/Kg	☼	05/28/14 08:15	05/29/14 00:54	1
Selenium	1.5		0.60	0.21	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/28/14 08:15	05/29/14 00:54	1
Sodium	270		60	8.0	mg/Kg	☼	05/28/14 08:15	05/29/14 00:54	1
Thallium	1.7		0.60	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Vanadium	31		0.30	0.044	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1
Zinc	49		1.2	0.24	mg/Kg	☼	05/28/14 08:15	05/29/14 18:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.23		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 18:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-7

Client Sample ID: 2819-37-B01

Lab Sample ID: 500-77279-17

Date Collected: 05/19/14 13:45

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 06:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 06:09	1
Boron	0.87		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 06:09	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 06:09	1
Chromium	0.036		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:09	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:09	1
Iron	27		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 06:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:40	1
Manganese	0.094		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:09	1
Nickel	0.018	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:09	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 06:09	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:09	1
Zinc	0.054	J	0.10	0.020	mg/L		06/03/14 09:30	06/03/14 18:40	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		05/28/14 07:00	05/29/14 18:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 18:06	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		05/28/14 17:15	05/29/14 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.018	0.0072	mg/Kg	✱	05/22/14 14:30	05/23/14 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72		0.200	0.200	SU			05/23/14 15:00	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-7

Qualifiers

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.
B	Compound was found in the blank and sample.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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>US30 Super Shove Kane Co</u> Project No.: <u>IDOT 2013-074</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	COC No.: <u> </u> of <u> </u> Lab Job No.: <u>500-77279</u> Sample Temp: <u> </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.

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												Date/Time	Received by:												
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments														
17	2819-37-B01	5/19	1:45	S	X	X	X	X	X	X	X	X	X	X	X	X	X	0-2	5/19/14	JTA										



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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: FAP 573 (US 30) Office Phone Number, if available: _____

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

1962 US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76353 Longitude: -88.48529
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL numbers: 0890855001, 0890855002, and 0890853001

IEPA Site Number(s), if assigned: BOL: 0890855029 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: FAP 573 (US 30)

Latitude: 41.76353 Longitude: -88.48529

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 2819-38-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO ISGS SITE 2819-38. SEE FIGURE 5 AND TABLE 3m OF THE REVISED PRELIMINARY SITE INVESTGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77279-8

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: IDOT Bureau of Design and Environment

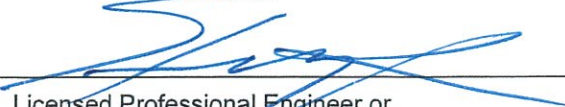
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

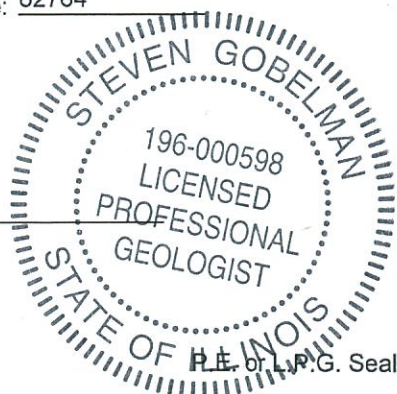
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/24/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-38

Selective Label and Printing

Sample ID	2819-38-B01	2819-38-B02	2819-38-B03	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-3	0-3	0-3						
Sample Date	5/19/2014	5/19/2014	5/19/2014						
PID	0	0	0						
Sample pH	7.42	7.88	7.75						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77279-8
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:
6/6/2014 2:27:12 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B01

Lab Sample ID: 500-77279-18

Date Collected: 05/19/14 13:50

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.6

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	☼	05/20/14 15:00	05/21/14 18:51	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	05/20/14 15:00	05/21/14 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	05/20/14 15:00	05/21/14 18:51	1
Dibromofluoromethane	111		75 - 120	05/20/14 15:00	05/21/14 18:51	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	05/20/14 15:00	05/21/14 18:51	1
Toluene-d8 (Surr)	104		75 - 122	05/20/14 15:00	05/21/14 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B01

Lab Sample ID: 500-77279-18

Date Collected: 05/19/14 13:50

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.6

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	☼	05/30/14 07:16	06/02/14 20:16	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B01

Lab Sample ID: 500-77279-18

Date Collected: 05/19/14 13:50

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.6

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	☼	05/30/14 07:16	06/02/14 20:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	05/30/14 07:16	06/02/14 20:16	1
Phenol-d5	59		31 - 110	05/30/14 07:16	06/02/14 20:16	1
Nitrobenzene-d5	54		25 - 115	05/30/14 07:16	06/02/14 20:16	1
2-Fluorobiphenyl	64		25 - 119	05/30/14 07:16	06/02/14 20:16	1
2,4,6-Tribromophenol	54		35 - 137	05/30/14 07:16	06/02/14 20:16	1
Terphenyl-d14	68		36 - 134	05/30/14 07:16	06/02/14 20:16	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	☼	05/28/14 08:15	05/29/14 01:00	1
Arsenic	8.0		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Barium	180		0.61	0.066	mg/Kg	☼	05/28/14 08:15	05/29/14 01:00	1
Beryllium	0.60		0.25	0.049	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Boron	2.6 J		3.1	0.61	mg/Kg	☼	05/28/14 08:15	05/29/14 01:00	1
Cadmium	0.23		0.12	0.016	mg/Kg	☼	05/28/14 08:15	05/30/14 13:20	1
Calcium	2900		12	3.3	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Chromium	16		0.61	0.071	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Cobalt	9.3		0.31	0.061	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Copper	15		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Iron	18000		12	5.1	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Lead	11 B		0.31	0.092	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Magnesium	3300		6.1	1.3	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Manganese	1200		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/30/14 13:20	1
Nickel	32		0.61	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Potassium	870		31	1.9	mg/Kg	☼	05/28/14 08:15	05/29/14 01:00	1
Selenium	1.2		0.61	0.22	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	05/28/14 08:15	05/29/14 01:00	1
Sodium	350		61	8.2	mg/Kg	☼	05/28/14 08:15	05/29/14 01:00	1
Thallium	2.2		0.61	0.26	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Vanadium	26		0.31	0.045	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1
Zinc	45		1.2	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 18:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 19:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B01

Lab Sample ID: 500-77279-18

Date Collected: 05/19/14 13:50

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 06:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 06:15	1
Boron	0.89		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 06:15	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 06:15	1
Chromium	0.027		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:15	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:15	1
Iron	21		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 06:15	1
Lead	0.019		0.0075	0.0075	mg/L		06/03/14 09:30	06/03/14 18:44	1
Manganese	0.063		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:15	1
Nickel	0.016	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:15	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 06:15	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:15	1
Zinc	0.10		0.10	0.020	mg/L		06/03/14 09:30	06/03/14 18:44	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		05/28/14 07:00	05/29/14 18:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 18:10	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		05/28/14 17:15	05/29/14 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0072	mg/Kg	✱	05/22/14 14:30	05/23/14 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.42		0.200	0.200	SU			05/23/14 15:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B02

Lab Sample ID: 500-77279-19

Date Collected: 05/19/14 13:55

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 81.3

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	☼	05/20/14 15:00	05/21/14 19:14	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/20/14 15:00	05/21/14 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	05/20/14 15:00	05/21/14 19:14	1
Dibromofluoromethane	114		75 - 120	05/20/14 15:00	05/21/14 19:14	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	05/20/14 15:00	05/21/14 19:14	1
Toluene-d8 (Surr)	103		75 - 122	05/20/14 15:00	05/21/14 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B02

Lab Sample ID: 500-77279-19

Date Collected: 05/19/14 13:55

Matrix: Solid

Date Received: 05/20/14 10:25

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	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B02

Lab Sample ID: 500-77279-19

Date Collected: 05/19/14 13:55

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 81.3

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	☼	05/30/14 07:16	06/02/14 20:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	05/30/14 07:16	06/02/14 20:36	1
Phenol-d5	60		31 - 110	05/30/14 07:16	06/02/14 20:36	1
Nitrobenzene-d5	44		25 - 115	05/30/14 07:16	06/02/14 20:36	1
2-Fluorobiphenyl	48		25 - 119	05/30/14 07:16	06/02/14 20:36	1
2,4,6-Tribromophenol	41		35 - 137	05/30/14 07:16	06/02/14 20:36	1
Terphenyl-d14	57		36 - 134	05/30/14 07:16	06/02/14 20:36	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	☼	05/28/14 08:15	05/29/14 01:06	1
Arsenic	6.6		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Barium	130		0.58	0.062	mg/Kg	☼	05/28/14 08:15	05/29/14 01:06	1
Beryllium	0.51		0.23	0.047	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Boron	1.9 J		2.9	0.58	mg/Kg	☼	05/28/14 08:15	05/29/14 01:06	1
Cadmium	0.11 J		0.12	0.015	mg/Kg	☼	05/28/14 08:15	05/30/14 13:28	1
Calcium	8000		12	3.2	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Chromium	13		0.58	0.068	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Cobalt	6.2		0.29	0.058	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Copper	16		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Iron	15000		12	4.8	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Lead	8.4 B		0.29	0.087	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Magnesium	6200		5.8	1.2	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Manganese	570		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Nickel	22		0.58	0.12	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Potassium	670		29	1.8	mg/Kg	☼	05/28/14 08:15	05/29/14 01:06	1
Selenium	0.82		0.58	0.21	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/28/14 08:15	05/29/14 01:06	1
Sodium	200		58	7.8	mg/Kg	☼	05/28/14 08:15	05/29/14 01:06	1
Thallium	1.2		0.58	0.25	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Vanadium	20		0.29	0.043	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1
Zinc	37		1.2	0.24	mg/Kg	☼	05/28/14 08:15	05/29/14 18:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B02

Lab Sample ID: 500-77279-19

Date Collected: 05/19/14 13:55

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 06:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 06:21	1
Boron	0.88		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 06:21	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 06:21	1
Chromium	0.029		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:21	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:21	1
Iron	21		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 06:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/14 07:00	05/29/14 06:21	1
Manganese	0.073		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:21	1
Nickel	0.015	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:21	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 06:21	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:21	1
Zinc	0.074	J	0.10	0.020	mg/L		06/03/14 09:30	06/03/14 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		05/28/14 07:00	05/29/14 18:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 18:13	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		05/28/14 17:15	05/29/14 15:24	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	0.029		0.018	0.0072	mg/Kg	✱	05/22/14 14:30	05/23/14 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			05/23/14 15:04	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B03

Lab Sample ID: 500-77279-20

Date Collected: 05/19/14 14:00

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 79.8

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	☼	05/20/14 15:00	05/21/14 19:37	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/20/14 15:00	05/21/14 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	05/20/14 15:00	05/21/14 19:37	1
Dibromofluoromethane	109		75 - 120	05/20/14 15:00	05/21/14 19:37	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	05/20/14 15:00	05/21/14 19:37	1
Toluene-d8 (Surr)	107		75 - 122	05/20/14 15:00	05/21/14 19:37	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	☼	05/30/14 07:16	06/02/14 20:56	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B03

Lab Sample ID: 500-77279-20

Date Collected: 05/19/14 14:00

Matrix: Solid

Date Received: 05/20/14 10:25

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	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Hexachlorocyclopentadiene	<0.82		0.82	0.24	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B03

Lab Sample ID: 500-77279-20

Date Collected: 05/19/14 14:00

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/30/14 07:16	06/02/14 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	05/30/14 07:16	06/02/14 20:56	1
Phenol-d5	58		31 - 110	05/30/14 07:16	06/02/14 20:56	1
Nitrobenzene-d5	53		25 - 115	05/30/14 07:16	06/02/14 20:56	1
2-Fluorobiphenyl	58		25 - 119	05/30/14 07:16	06/02/14 20:56	1
2,4,6-Tribromophenol	50		35 - 137	05/30/14 07:16	06/02/14 20:56	1
Terphenyl-d14	67		36 - 134	05/30/14 07:16	06/02/14 20:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.49	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Arsenic	7.5		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Barium	100		0.60	0.065	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Beryllium	0.46		0.24	0.048	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Boron	1.7	J	3.0	0.60	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Cadmium	2.2		0.12	0.015	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Calcium	11000		12	3.3	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Chromium	12		0.60	0.070	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Cobalt	5.4		0.30	0.060	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Copper	15		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Iron	15000		12	5.0	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Lead	8.2		0.30	0.090	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Magnesium	8000		6.0	1.2	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Manganese	310		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Nickel	15		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Potassium	490		30	1.8	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Sodium	130		60	8.1	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Thallium	0.89		0.60	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Vanadium	21		0.30	0.045	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1
Zinc	35		1.2	0.24	mg/Kg	☼	05/28/14 08:45	05/29/14 09:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 19:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Client Sample ID: 2819-38-B03

Lab Sample ID: 500-77279-20

Date Collected: 05/19/14 14:00

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.17	J	0.50	0.050	mg/L		05/28/14 07:00	05/29/14 06:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 07:00	05/29/14 06:27	1
Boron	0.71		0.10	0.050	mg/L		05/28/14 07:00	05/29/14 06:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/14 07:00	05/29/14 06:27	1
Chromium	0.021	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:27	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:27	1
Iron	14		0.20	0.20	mg/L		05/28/14 07:00	05/29/14 06:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/14 07:00	05/29/14 06:27	1
Manganese	0.048		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:27	1
Nickel	0.012	J	0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:27	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 07:00	05/29/14 06:27	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 07:00	05/29/14 06:27	1
Zinc	0.097	J B	0.10	0.020	mg/L		05/28/14 07:00	05/29/14 06:27	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		05/28/14 07:00	05/29/14 18:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 07:00	05/28/14 18:17	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		05/28/14 17:15	05/29/14 15:26	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	0.047		0.020	0.0080	mg/Kg	✱	05/22/14 14:30	05/23/14 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75		0.200	0.200	SU			05/23/14 15:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-8

Qualifiers

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.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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



CHAIN OF CUSTODY RECORD

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<p>Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com</p>	<p>Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com</p>	<p>Project Name: <u>US30 SuperDrive Kane Co</u> Project No.: <u>IDOT 2013-074</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/cm</u></p>	<p>COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-77279</u> Sample Temp: _____</p>								
<p>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.</p>											
<p>Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other</p>											
ANALYSES											
VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
X	X	X	X	X	X	X	X	X	X		0-3
X	X	X	X	X	X	X	X	X	X		↓
X	X	X	X	X	X	X	X	X	X		
Relinquished by: <i>[Signature]</i>	Date/Time: 5/19/14 4:00	Received by: <i>[Signature]</i>	Date/Time: 5/19/14 12:15								
Relinquished by: <i>[Signature]</i>	Date/Time: 5/20/14 10:25	Received by: <i>[Signature]</i>	Date/Time: 5/20/14 10:25								
Relinquished by: <i>[Signature]</i>	Date/Time: 5/20/14 5:20	Received by: <i>[Signature]</i>	Date/Time: 5/20/14 10:25								



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1942 US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76358 Longitude: -88.48434
(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: 0890855040 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: FAP 573 (US 30)

Latitude: 41.76358 Longitude: -88.48434

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 2819-39-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 2819-39. SEE FIGURE 5 AND TABLE 3n OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT: TESTAMERICA JOB ID: 500-77279-9

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: IDOT Bureau of Design and Environment

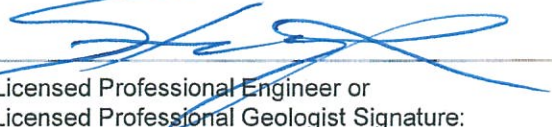
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

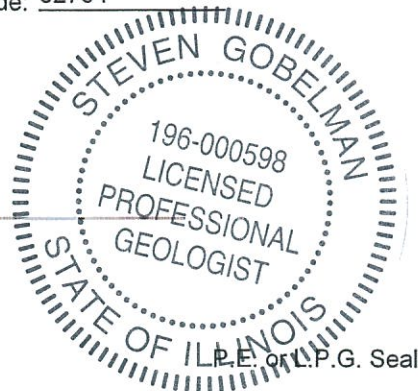
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-39

Runway to Galway

Sample ID	2819-39-B01	2819-39-B02							
Sample Depth (ft)	0-5	0-5							
Sample Date	5/19/2014	5/19/2014							
PID	0	0							
Sample pH	8	7.3							
Matrix	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)									
Benzo(a)pyrene	J 0.036	0.48	1,2	0.09	0.09	0.98	1.3	2.1	NA
Dibenzo(a,h)anthracene	ND	0.092	1,2	0.09	0.09	0.15	0.2	0.42	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-77279-9

Client Project/Site: IDOT - US 30 - WO 074

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:

6/6/2014 2:28:32 PM

Jodie Bracken, Project Management Assistant II

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Designee for

Richard Wright, Senior Project Manager

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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 - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

Client Sample ID: 2819-39-B01

Lab Sample ID: 500-77279-21

Date Collected: 05/19/14 14:10

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.3

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	☼	05/20/14 15:00	05/21/14 20:00	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
1,2-Dichloroethane	<0.0048		0.0048	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Styrene	<0.0048		0.0048	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	05/20/14 15:00	05/21/14 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	05/20/14 15:00	05/21/14 20:00	1
Dibromofluoromethane	114		75 - 120	05/20/14 15:00	05/21/14 20:00	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	05/20/14 15:00	05/21/14 20:00	1
Toluene-d8 (Surr)	105		75 - 122	05/20/14 15:00	05/21/14 20:00	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	☼	05/30/14 07:31	06/02/14 22:16	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

Client Sample ID: 2819-39-B01

Lab Sample ID: 500-77279-21

Date Collected: 05/19/14 14:10

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.3

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	☼	05/30/14 07:31	06/02/14 22:16	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Phenanthrene	0.059		0.041	0.0057	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Anthracene	0.0092 J		0.041	0.0068	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Fluoranthene	0.097		0.041	0.0076	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Pyrene	0.086		0.041	0.0081	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Benzo[a]anthracene	0.034 J		0.041	0.0055	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

Client Sample ID: 2819-39-B01

Lab Sample ID: 500-77279-21

Date Collected: 05/19/14 14:10

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.047		0.041	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Benzo[b]fluoranthene	0.059		0.041	0.0088	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Benzo[k]fluoranthene	0.023	J	0.041	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Benzo[a]pyrene	0.036	J	0.041	0.0079	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.041	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
Benzo[g,h,i]perylene	0.033	J *	0.041	0.013	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	05/30/14 07:31	06/02/14 22:16	1
Phenol-d5	53		31 - 110	05/30/14 07:31	06/02/14 22:16	1
Nitrobenzene-d5	45		25 - 115	05/30/14 07:31	06/02/14 22:16	1
2-Fluorobiphenyl	52		25 - 119	05/30/14 07:31	06/02/14 22:16	1
2,4,6-Tribromophenol	47		35 - 137	05/30/14 07:31	06/02/14 22:16	1
Terphenyl-d14	68		36 - 134	05/30/14 07:31	06/02/14 22:16	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	☼	05/28/14 08:45	05/29/14 10:11	1
Arsenic	7.3		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Barium	94		0.60	0.064	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Beryllium	0.52		0.24	0.048	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Boron	1.9	J	3.0	0.60	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Cadmium	2.3		0.12	0.015	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Calcium	13000		12	3.3	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Chromium	13		0.60	0.070	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Cobalt	6.6		0.30	0.060	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Copper	16		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Iron	16000		12	4.9	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Lead	10		0.30	0.089	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Magnesium	8900		6.0	1.2	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Manganese	470		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Nickel	19		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Potassium	760		30	1.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Selenium	0.35	J	0.60	0.21	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Sodium	2200		60	8.0	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Thallium	1.1		0.60	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Vanadium	22		0.30	0.044	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1
Zinc	37		1.2	0.24	mg/Kg	☼	05/28/14 08:45	05/29/14 10:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/04/14 09:15	06/04/14 19:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:15	06/04/14 19:25	1
Chromium	<0.025		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

Client Sample ID: 2819-39-B01

Lab Sample ID: 500-77279-21

Date Collected: 05/19/14 14:10

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 19:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 19:25	1
Manganese	6.1		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 19:25	1
Nickel	0.052		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80		0.50	0.050	mg/L		05/28/14 09:30	05/29/14 06:48	1
Beryllium	0.0053		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 06:48	1
Boron	0.093	J	0.10	0.050	mg/L		05/28/14 09:30	05/29/14 06:48	1
Cadmium	0.020		0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 06:48	1
Chromium	0.13		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 06:48	1
Cobalt	0.030		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 06:48	1
Iron	150		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 06:48	1
Lead	0.068		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 06:48	1
Manganese	1.1		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 06:48	1
Nickel	0.12		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 06:48	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 06:48	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 06:48	1
Zinc	0.43		0.10	0.020	mg/L		05/28/14 09:30	05/29/14 06:48	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		05/28/14 09:30	05/28/14 18:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00045		0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0074	mg/Kg	☼	05/22/14 15:00	05/23/14 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			05/23/14 15:08	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

Client Sample ID: 2819-39-B02

Lab Sample ID: 500-77279-22

Date Collected: 05/19/14 14:15

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00073	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/20/14 15:00	05/21/14 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	05/20/14 15:00	05/21/14 20:22	1
Dibromofluoromethane	109		75 - 120	05/20/14 15:00	05/21/14 20:22	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	05/20/14 15:00	05/21/14 20:22	1
Toluene-d8 (Surr)	105		75 - 122	05/20/14 15:00	05/21/14 20:22	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	☼	05/30/14 07:31	06/02/14 22:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

Client Sample ID: 2819-39-B02

Lab Sample ID: 500-77279-22

Date Collected: 05/19/14 14:15

Matrix: Solid

Date Received: 05/20/14 10:25

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	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Acenaphthene	0.051		0.040	0.0072	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Fluorene	0.092		0.040	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Phenanthrene	0.91		0.040	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Anthracene	0.24		0.040	0.0067	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Carbazole	0.13 J		0.20	0.10	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Fluoranthene	1.3		0.040	0.0074	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Pyrene	1.2		0.040	0.0080	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[a]anthracene	0.52		0.040	0.0054	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

Client Sample ID: 2819-39-B02

Lab Sample ID: 500-77279-22

Date Collected: 05/19/14 14:15

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.60		0.040	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[b]fluoranthene	0.68		0.040	0.0087	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[k]fluoranthene	0.26		0.040	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[a]pyrene	0.48		0.040	0.0078	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Indeno[1,2,3-cd]pyrene	0.35		0.040	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Dibenz(a,h)anthracene	0.092		0.040	0.0078	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[g,h,i]perylene	0.39 *		0.040	0.013	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110	05/30/14 07:31	06/02/14 22:36	1
Phenol-d5	52		31 - 110	05/30/14 07:31	06/02/14 22:36	1
Nitrobenzene-d5	42		25 - 115	05/30/14 07:31	06/02/14 22:36	1
2-Fluorobiphenyl	50		25 - 119	05/30/14 07:31	06/02/14 22:36	1
2,4,6-Tribromophenol	46		35 - 137	05/30/14 07:31	06/02/14 22:36	1
Terphenyl-d14	66		36 - 134	05/30/14 07:31	06/02/14 22:36	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	☼	05/28/14 08:45	05/29/14 10:17	1
Arsenic	6.9		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Barium	84		0.60	0.064	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Beryllium	0.46		0.24	0.048	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Boron	1.7 J		3.0	0.60	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Cadmium	2.1		0.12	0.015	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Calcium	5300		12	3.3	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Chromium	12		0.60	0.070	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Cobalt	5.7		0.30	0.060	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Copper	16		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Iron	15000		12	4.9	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Lead	8.7		0.30	0.089	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Magnesium	3800		6.0	1.2	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Manganese	460		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Nickel	20		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Potassium	540		30	1.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Selenium	0.39 J		0.60	0.21	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Sodium	120		60	8.0	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Thallium	1.1		0.60	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Vanadium	21		0.30	0.044	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1
Zinc	35		1.2	0.24	mg/Kg	☼	05/28/14 08:45	05/29/14 10:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:15	06/04/14 19:30	1
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 19:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 19:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

Client Sample ID: 2819-39-B02

Lab Sample ID: 500-77279-22

Date Collected: 05/19/14 14:15

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.17		0.025	0.010	mg/L		06/04/14 09:15	06/04/14 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		05/28/14 09:30	05/29/14 07:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 07:31	1
Boron	0.077	J	0.10	0.050	mg/L		05/28/14 09:30	05/29/14 07:31	1
Cadmium	0.0090		0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 07:31	1
Chromium	0.066		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:31	1
Cobalt	0.011	J	0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:31	1
Iron	71		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 07:31	1
Lead	0.025		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 07:31	1
Manganese	0.54		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:31	1
Nickel	0.060		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:31	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 07:31	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:31	1
Zinc	0.17		0.10	0.020	mg/L		05/28/14 09:30	05/29/14 07:31	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		05/28/14 09:30	05/28/14 18:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 18:54	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		05/28/14 17:15	05/29/14 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.020	0.0078	mg/Kg	☼	05/22/14 15:00	05/23/14 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.30		0.200	0.200	SU			05/23/14 15:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-9

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.
*	LCS or LCSD exceeds the 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.
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.
^	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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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 Information Project Name: US30 Super Shovel Reno Co Project No.: IDOT 2013-074 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: CFF/cm	Administrative COC No.: 1 of 1 Lab Job No.: 500-77279 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.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																										
		ANALYSES																										
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments												
21	2819-39-B01	5/19	2:10	S	X	X					X	X	X	X		0-5												
22	2819-39-B02	"	2:15	S	X	X					X	X	X	X		0-5												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; vertical-align: top;">Relinquished by: <i>[Signature]</i></td> <td style="width: 25%; vertical-align: top;">Date/Time: 5/19/14 4:00</td> <td style="width: 25%; vertical-align: top;">Received by: <i>[Signature]</i></td> <td style="width: 25%; vertical-align: top;">Date/Time: 5/14/14 16:00</td> </tr> <tr> <td style="vertical-align: top;">Relinquished by: <i>[Signature]</i></td> <td style="vertical-align: top;">Date/Time: 1/25</td> <td style="vertical-align: top;">Received by: <i>[Signature]</i></td> <td style="vertical-align: top;">Date/Time: 5/20/14 10:25</td> </tr> <tr> <td style="vertical-align: top;">Relinquished by:</td> <td style="vertical-align: top;">Date/Time:</td> <td style="vertical-align: top;">Received by:</td> <td style="vertical-align: top;">Date/Time:</td> </tr> </table>																	Relinquished by: <i>[Signature]</i>	Date/Time: 5/19/14 4:00	Received by: <i>[Signature]</i>	Date/Time: 5/14/14 16:00	Relinquished by: <i>[Signature]</i>	Date/Time: 1/25	Received by: <i>[Signature]</i>	Date/Time: 5/20/14 10:25	Relinquished by:	Date/Time:	Received by:	Date/Time:
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Relinquished by:	Date/Time:	Received by:	Date/Time:																									



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1650 US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76364 Longitude: -88.48354
(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

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

Project Name: FAP 573 (US 30)

Latitude: 41.76364 Longitude: -88.48354

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 2819-40-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 2819-40. SEE FIGURE 5 AND TABLE 3o OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77279-10

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: IDOT Bureau of Design and Environment

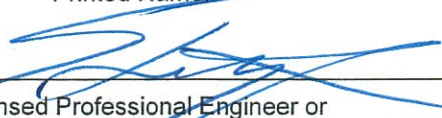
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

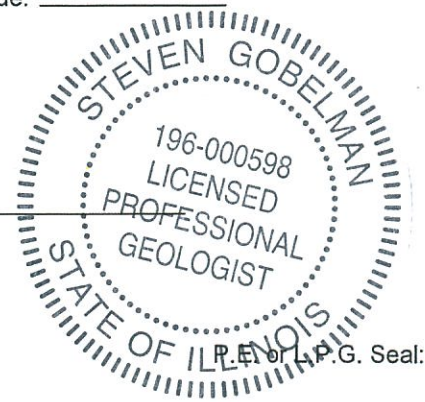
Printed Name:



 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/29/14

 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-40
Sugar Grove Motel

Sample ID	2819-40-B01	2819-40-B01 DUP	2819-40-B02	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4.5	0-4.5	0-4.5						
Sample Date	5/19/2014	5/19/2014	5/19/2014						
PID	0	0	0						
Sample pH	7.65	7.28	7.4						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-77279-10

Client Project/Site: IDOT - US 30 - WO 074

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:

6/6/2014 2:30:01 PM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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results through

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B01

Lab Sample ID: 500-77279-23

Date Collected: 05/19/14 14:25

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.7

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	☼	05/20/14 15:00	05/21/14 20:45	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00083	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	05/20/14 15:00	05/21/14 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	05/20/14 15:00	05/21/14 20:45	1
Dibromofluoromethane	107		75 - 120	05/20/14 15:00	05/21/14 20:45	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	05/20/14 15:00	05/21/14 20:45	1
Toluene-d8 (Surr)	107		75 - 122	05/20/14 15:00	05/21/14 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B01

Lab Sample ID: 500-77279-23

Date Collected: 05/19/14 14:25

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.7

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	☼	05/30/14 07:31	06/02/14 20:04	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B01

Lab Sample ID: 500-77279-23

Date Collected: 05/19/14 14:25

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.7

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	☼	05/30/14 07:31	06/02/14 20:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
Benzo[g,h,i]perylene	0.020	J *	0.039	0.013	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	05/30/14 07:31	06/02/14 20:04	1
Phenol-d5	40		31 - 110	05/30/14 07:31	06/02/14 20:04	1
Nitrobenzene-d5	47		25 - 115	05/30/14 07:31	06/02/14 20:04	1
2-Fluorobiphenyl	46		25 - 119	05/30/14 07:31	06/02/14 20:04	1
2,4,6-Tribromophenol	50		35 - 137	05/30/14 07:31	06/02/14 20:04	1
Terphenyl-d14	51		36 - 134	05/30/14 07:31	06/02/14 20:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.2	0.47	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Arsenic	8.7		0.59	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Barium	120		0.59	0.063	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Beryllium	0.69		0.24	0.047	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Boron	1.6	J	2.9	0.59	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Cadmium	2.6		0.12	0.015	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Calcium	2700		12	3.2	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Chromium	16		0.59	0.068	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Cobalt	5.4		0.29	0.059	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Copper	17		0.59	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Iron	20000		12	4.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Lead	9.6		0.29	0.088	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Magnesium	3400		5.9	1.2	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Manganese	420		0.59	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Nickel	20		0.59	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Potassium	690		29	1.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Selenium	0.59		0.59	0.21	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Sodium	77		59	7.9	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Thallium	1.1		0.59	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Vanadium	28		0.29	0.043	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1
Zinc	37		1.2	0.24	mg/Kg	☼	05/28/14 08:45	05/29/14 10:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:15	06/04/14 19:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:15	06/04/14 19:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B01

Lab Sample ID: 500-77279-23

Date Collected: 05/19/14 14:25

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		05/28/14 09:30	05/29/14 07:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 07:37	1
Boron	<0.10		0.10	0.050	mg/L		05/28/14 09:30	05/29/14 07:37	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 07:37	1
Chromium	0.028		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:37	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:37	1
Iron	28		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 07:37	1
Lead	0.0081		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 07:37	1
Manganese	0.11		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:37	1
Nickel	0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:37	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 07:37	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:37	1
Zinc	0.085	J	0.10	0.020	mg/L		05/28/14 09:30	05/29/14 07:37	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		05/28/14 09:30	05/28/14 18:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 18:58	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		05/28/14 17:15	05/29/14 15:46	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	0.023		0.019	0.0076	mg/Kg	✱	05/22/14 15:00	05/23/14 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65		0.200	0.200	SU			05/23/14 15:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B01 Dup

Lab Sample ID: 500-77279-24

Date Collected: 05/19/14 14:30

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.6

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	☼	05/20/14 15:00	05/22/14 13:51	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	05/20/14 15:00	05/22/14 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	05/20/14 15:00	05/22/14 13:51	1
Dibromofluoromethane	113		75 - 120	05/20/14 15:00	05/22/14 13:51	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	05/20/14 15:00	05/22/14 13:51	1
Toluene-d8 (Surr)	103		75 - 122	05/20/14 15:00	05/22/14 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B01 Dup

Lab Sample ID: 500-77279-24

Date Collected: 05/19/14 14:30

Matrix: Solid

Date Received: 05/20/14 10:25

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	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B01 Dup

Lab Sample ID: 500-77279-24

Date Collected: 05/19/14 14:30

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.6

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	☼	05/30/14 07:31	06/02/14 20:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
Benzo[g,h,i]perylene	<0.040	*	0.040	0.013	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:31	06/02/14 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110	05/30/14 07:31	06/02/14 20:23	1
Phenol-d5	44		31 - 110	05/30/14 07:31	06/02/14 20:23	1
Nitrobenzene-d5	46		25 - 115	05/30/14 07:31	06/02/14 20:23	1
2-Fluorobiphenyl	42		25 - 119	05/30/14 07:31	06/02/14 20:23	1
2,4,6-Tribromophenol	56		35 - 137	05/30/14 07:31	06/02/14 20:23	1
Terphenyl-d14	57		36 - 134	05/30/14 07:31	06/02/14 20:23	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	☼	05/28/14 08:45	05/29/14 10:29	1
Arsenic	8.6		0.61	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Barium	140		0.61	0.066	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Beryllium	0.60		0.25	0.049	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Boron	1.5 J		3.1	0.61	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Cadmium	2.5		0.12	0.016	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Calcium	2600		12	3.3	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Chromium	14		0.61	0.071	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Cobalt	8.0		0.31	0.061	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Copper	19		0.61	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Iron	18000		12	5.1	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Lead	10		0.31	0.092	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Magnesium	3100		6.1	1.3	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Manganese	650		0.61	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Nickel	28		0.61	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Potassium	610		31	1.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Selenium	0.51 J		0.61	0.22	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Sodium	65		61	8.2	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Thallium	1.5		0.61	0.26	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Vanadium	24		0.31	0.045	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1
Zinc	38		1.2	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 10:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:30	06/04/14 20:40	1
Iron	0.42		0.20	0.20	mg/L		06/04/14 09:30	06/04/14 20:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:30	06/04/14 20:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B01 Dup

Lab Sample ID: 500-77279-24

Date Collected: 05/19/14 14:30

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.060		0.025	0.010	mg/L		06/04/14 09:30	06/04/14 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.050	mg/L		05/28/14 09:30	05/29/14 07:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 07:44	1
Boron	0.055	J	0.10	0.050	mg/L		05/28/14 09:30	05/29/14 07:44	1
Cadmium	0.0054		0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 07:44	1
Chromium	0.044		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:44	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:44	1
Iron	46		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 07:44	1
Lead	0.012		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 07:44	1
Manganese	0.16		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:44	1
Nickel	0.039		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:44	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 07:44	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:44	1
Zinc	0.11		0.10	0.020	mg/L		05/28/14 09:30	05/29/14 07:44	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		05/28/14 09:30	05/28/14 19:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 19:01	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		05/28/14 17:15	05/29/14 15:48	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	0.039		0.020	0.0079	mg/Kg	☼	05/22/14 15:00	05/23/14 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.28		0.200	0.200	SU			05/23/14 15:12	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B02

Lab Sample ID: 500-77279-25

Date Collected: 05/19/14 14:40

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.2

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	☼	05/20/14 15:00	05/22/14 14:14	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Dibromochloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/20/14 15:00	05/22/14 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	05/20/14 15:00	05/22/14 14:14	1
Dibromofluoromethane	111		75 - 120	05/20/14 15:00	05/22/14 14:14	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	05/20/14 15:00	05/22/14 14:14	1
Toluene-d8 (Surr)	107		75 - 122	05/20/14 15:00	05/22/14 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B02

Lab Sample ID: 500-77279-25

Date Collected: 05/19/14 14:40

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.2

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	0.050	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2-Methylnaphthalene	<0.042		0.042	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
4-Nitroaniline	<0.42		0.42	0.17	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.34	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Fluoranthene	<0.042		0.042	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B02

Lab Sample ID: 500-77279-25

Date Collected: 05/19/14 14:40

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
Benzo[g,h,i]perylene	<0.042	*	0.042	0.013	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/30/14 07:31	06/02/14 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		25 - 110	05/30/14 07:31	06/02/14 20:42	1
Phenol-d5	33		31 - 110	05/30/14 07:31	06/02/14 20:42	1
Nitrobenzene-d5	34		25 - 115	05/30/14 07:31	06/02/14 20:42	1
2-Fluorobiphenyl	30		25 - 119	05/30/14 07:31	06/02/14 20:42	1
2,4,6-Tribromophenol	43		35 - 137	05/30/14 07:31	06/02/14 20:42	1
Terphenyl-d14	43		36 - 134	05/30/14 07:31	06/02/14 20:42	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	☼	05/28/14 08:45	05/29/14 10:36	1
Arsenic	8.0		0.62	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Barium	150		0.62	0.067	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Beryllium	0.52		0.25	0.050	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Boron	1.5 J		3.1	0.62	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Cadmium	2.3		0.12	0.016	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Calcium	2400		12	3.4	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Chromium	13		0.62	0.072	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Cobalt	7.0		0.31	0.062	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Copper	18		0.62	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Iron	17000		12	5.1	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Lead	9.3		0.31	0.093	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Magnesium	2800		6.2	1.3	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Manganese	550		0.62	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Nickel	28		0.62	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Potassium	520		31	1.9	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Selenium	0.52 J		0.62	0.22	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Sodium	74		62	8.3	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Thallium	1.4		0.62	0.26	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Vanadium	22		0.31	0.046	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1
Zinc	35		1.2	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 10:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:30	06/04/14 20:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:30	06/04/14 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Client Sample ID: 2819-40-B02

Lab Sample ID: 500-77279-25

Date Collected: 05/19/14 14:40

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.15	J	0.50	0.050	mg/L		05/28/14 09:30	05/29/14 07:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 07:50	1
Boron	0.94		0.10	0.050	mg/L		05/28/14 09:30	05/29/14 07:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 07:50	1
Chromium	0.011	J	0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:50	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:50	1
Iron	5.6		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 07:50	1
Lead	0.0087		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 07:50	1
Manganese	0.028		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:50	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:50	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 07:50	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:50	1
Zinc	0.086	J	0.10	0.020	mg/L		05/28/14 09:30	05/29/14 07:50	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		05/28/14 09:30	05/28/14 19:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 19:05	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		05/28/14 17:15	05/29/14 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.0076	mg/Kg	✱	05/22/14 15:00	05/23/14 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40		0.200	0.200	SU			05/23/14 15:14	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-10

Qualifiers

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.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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>US30 Superfund Kane Co</u> Project No.: <u>IDOT 2013-074</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>CFM</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-77279</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.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
23	2819-40-B01	5/19	2:25	S	X	X					X	X	X	X		0-4.5
24	2819-40-B01 DuP	↓	2:30	S	X	X					X	X	X	X		↓
25	2819-40-B02	↓	2:40	S	X	X					X	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Relinquished by: <u>[Signature]</u> Date/Time: <u>5/19/11 4:00</u></p> <p>Relinquished by: <u>[Signature]</u> Date/Time: <u>5/20/14 02:25</u></p> <p>Relinquished by: <u>[Signature]</u> Date/Time: _____</p> </div> <div style="width: 45%;"> <p>Received by: <u>[Signature]</u> Date/Time: <u>5/19/11 4:00</u></p> <p>Received by: <u>[Signature]</u> Date/Time: <u>5/20/14 02:25</u></p> <p>Received by: _____ Date/Time: _____</p> </div> </div>																



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1640 US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76367 Longitude: -88.48297

(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: FAP 573 (US 30)

Latitude: 41.76367 Longitude: -88.48297

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 2819-41-B01 WAS SAMPLED ADJACENT TO ISGS SITE 2819-41. SEE FIGURE 5 AND TABLE 3p OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77279-11

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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

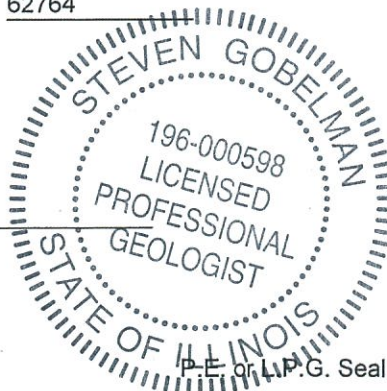
Printed Name:



 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/14

 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-41

Residence

Sample ID	2819-41-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)	0-3						
Sample Date	5/19/2014						
PID	0						
Sample pH	7.52						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-77279-11

Client Project/Site: IDOT - US 30 - WO 074

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:

6/6/2014 2:31:34 PM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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results through

TotalAccess

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www.testamericainc.com

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

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

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

1

2

3

4

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6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-11

Client Sample ID: 2819-41-B01

Lab Sample ID: 500-77279-26

Date Collected: 05/19/14 14:45

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.8

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	☼	05/20/14 15:00	05/22/14 14:38	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	05/20/14 15:00	05/22/14 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 122	05/20/14 15:00	05/22/14 14:38	1
Dibromofluoromethane	112		75 - 120	05/20/14 15:00	05/22/14 14:38	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	05/20/14 15:00	05/22/14 14:38	1
Toluene-d8 (Surr)	106		75 - 122	05/20/14 15:00	05/22/14 14:38	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	☼	05/30/14 07:31	06/02/14 21:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-11

Client Sample ID: 2819-41-B01

Lab Sample ID: 500-77279-26

Date Collected: 05/19/14 14:45

Matrix: Solid

Date Received: 05/20/14 10:25

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	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-11

Client Sample ID: 2819-41-B01

Lab Sample ID: 500-77279-26

Date Collected: 05/19/14 14:45

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.8

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	☼	05/30/14 07:31	06/02/14 21:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	30		25 - 110	05/30/14 07:31	06/02/14 21:02	1
Phenol-d5	28	X	31 - 110	05/30/14 07:31	06/02/14 21:02	1
Nitrobenzene-d5	31		25 - 115	05/30/14 07:31	06/02/14 21:02	1
2-Fluorobiphenyl	28		25 - 119	05/30/14 07:31	06/02/14 21:02	1
2,4,6-Tribromophenol	35		35 - 137	05/30/14 07:31	06/02/14 21:02	1
Terphenyl-d14	38		36 - 134	05/30/14 07:31	06/02/14 21:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.48	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Arsenic	7.9		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Barium	110		0.60	0.064	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Beryllium	0.59		0.24	0.048	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Boron	1.4	J	3.0	0.60	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Cadmium	2.5		0.12	0.015	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Calcium	2000		12	3.3	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Chromium	15		0.60	0.070	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Cobalt	8.5		0.30	0.060	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Copper	18		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Iron	18000		12	4.9	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Lead	9.9		0.30	0.090	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Magnesium	2800		6.0	1.2	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Manganese	490		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Nickel	18		0.60	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Potassium	600		30	1.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Selenium	0.64		0.60	0.21	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Sodium	340		60	8.1	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Thallium	1.2		0.60	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Vanadium	23		0.30	0.044	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1
Zinc	38		1.2	0.24	mg/Kg	☼	05/28/14 08:45	05/29/14 10:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:30	06/04/14 20:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:30	06/04/14 20:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-11

Client Sample ID: 2819-41-B01

Lab Sample ID: 500-77279-26

Date Collected: 05/19/14 14:45

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.26	J	0.50	0.050	mg/L		05/28/14 09:30	05/29/14 07:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 07:56	1
Boron	0.83		0.10	0.050	mg/L		05/28/14 09:30	05/29/14 07:56	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 07:56	1
Chromium	0.026		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:56	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:56	1
Iron	21		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 07:56	1
Lead	0.0082		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 07:56	1
Manganese	0.087		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:56	1
Nickel	0.019	J	0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:56	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 07:56	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 07:56	1
Zinc	0.091	J	0.10	0.020	mg/L		05/28/14 09:30	05/29/14 07:56	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		05/28/14 09:30	05/28/14 19:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J	0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0076	mg/Kg	✱	05/22/14 15:00	05/23/14 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.52		0.200	0.200	SU			05/23/14 15:15	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-11

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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>1530 Sugar Grove Kane Co</u> Project No.: <u>IDOT 2013-074</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>CFK</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-77279</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.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments					
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization				
26	2819-41-B01	5/19	2:45	S	XX								XX	XX	XX					0-3
Relinquished by: <u>[Signature]</u> Date/Time: <u>5/19/14 4:00</u>					Received by: <u>[Signature]</u> Date/Time: <u>5/19/14 10:15</u>															
Relinquished by: <u>[Signature]</u> Date/Time: <u>5/20/14 10:25</u>					Received by: <u>[Signature]</u> Date/Time: <u>5/20/14 10:25</u>															
Relinquished by: <u>[Signature]</u> Date/Time: <u>5/20/14 10:25</u>					Received by: <u>[Signature]</u> Date/Time: <u>5/20/14 10:25</u>															



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1000 block of US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76408 Longitude: -88.47769
(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

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

Project Name: FAP 573 (US 30)

Latitude: 41.76408 Longitude: -88.47769

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 2819-42-B01, -B02, -B04 THROUGH -B09, -B11, -B12, -B13, -B15 AND LOCATION 2819-43-B01 WERE SAMPLED ADJACENT TO ISGS SITE 2819-42. SEE FIGURES 5 THROUGH 8 AND TABLE 3q OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-77279-12, 500-77374-1, 500-77465-3, AND 500-77374-2

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: IDOT Bureau of Design and Environment

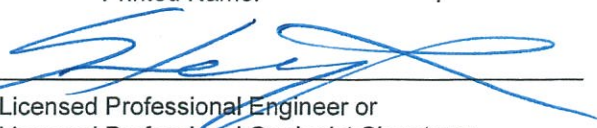
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

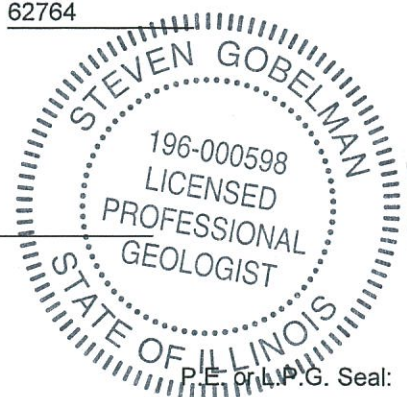
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

**ISGS Site 2819-42
Agricultural Land**

Sample ID	2819-42-B01	2819-42-B02	2819-42-B04	2819-42-B05	2819-42-B06	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-6	0-6	0-6	0-6						
Sample Date	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/19/2014						
PID	0	0	0	0	0						
Sample pH	7.54	7.2	7.54	7.83	8.09						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

Sample ID	2819-42-B07	2819-42-B08	2819-42-B09	2819-42-B11	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)	0-6	0-6	0-6	0-6						
Sample Date	5/19/2014	5/19/2014	5/19/2014	5/20/2014						
PID	0	0	0	0						
Sample pH	7.12	7.7	7.61	8.43						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

Sample ID	2819-42-B12	2819-42-B13	2819-42-B15	2819-43-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)	0-6	0-6	0-6	0-3						
Sample Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014						
PID	0	0	0	0						
Sample pH	7.73	7.63	8.14	8.54						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77279-12
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson

Jodie Bracken

Authorized for release by:
6/6/2014 2:32:56 PM

Jodie Bracken, Project Management Assistant II
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Designee for

Richard Wright, Senior Project Manager
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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 - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B06

Lab Sample ID: 500-77279-27

Date Collected: 05/19/14 15:05

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 85.4

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	☼	05/20/14 15:00	05/27/14 12:32	1
Benzene	<0.0039		0.0039	0.00054	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Bromodichloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Bromoform	<0.0039		0.0039	0.00091	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Carbon disulfide	<0.0039		0.0039	0.00059	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Carbon tetrachloride	<0.0039		0.0039	0.00072	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Chlorobenzene	<0.0039		0.0039	0.00040	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Chloroform	<0.0039		0.0039	0.00045	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Chloromethane	<0.0039		0.0039	0.00083	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00056	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00052	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Dibromochloromethane	<0.0039		0.0039	0.00068	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
1,1-Dichloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
1,1-Dichloroethene	<0.0039		0.0039	0.00064	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
1,2-Dichloropropane	<0.0039		0.0039	0.00060	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00052	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Ethylbenzene	<0.0039		0.0039	0.00080	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Methylene Chloride	<0.0039		0.0039	0.0011	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00065	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Styrene	<0.0039		0.0039	0.00052	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
1,1,1,2-Tetrachloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Tetrachloroethene	<0.0039		0.0039	0.00060	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Toluene	<0.0039		0.0039	0.00055	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00054	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00071	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00059	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00054	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Trichloroethene	<0.0039		0.0039	0.00065	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Vinyl acetate	<0.0039		0.0039	0.00062	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Vinyl chloride	<0.0039		0.0039	0.00083	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1
Xylenes, Total	<0.0079		0.0079	0.00036	mg/Kg	☼	05/20/14 15:00	05/27/14 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 122	05/20/14 15:00	05/27/14 12:32	1
Dibromofluoromethane	117		75 - 120	05/20/14 15:00	05/27/14 12:32	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	05/20/14 15:00	05/27/14 12:32	1
Toluene-d8 (Surr)	105		75 - 122	05/20/14 15:00	05/27/14 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B06

Lab Sample ID: 500-77279-27

Date Collected: 05/19/14 15:05

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 85.4

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	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Phenanthrene	<0.037		0.037	0.0051	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B06

Lab Sample ID: 500-77279-27

Date Collected: 05/19/14 15:05

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 85.4

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	☼	05/30/14 07:31	06/02/14 22:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.037	0.0096	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Dibenz(a,h)anthracene	0.014	J	0.037	0.0071	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
Benzo[g,h,i]perylene	0.038	*	0.037	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/30/14 07:31	06/02/14 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		25 - 110	05/30/14 07:31	06/02/14 22:36	1
Phenol-d5	33		31 - 110	05/30/14 07:31	06/02/14 22:36	1
Nitrobenzene-d5	34		25 - 115	05/30/14 07:31	06/02/14 22:36	1
2-Fluorobiphenyl	35		25 - 119	05/30/14 07:31	06/02/14 22:36	1
2,4,6-Tribromophenol	46		35 - 137	05/30/14 07:31	06/02/14 22:36	1
Terphenyl-d14	50		36 - 134	05/30/14 07:31	06/02/14 22:36	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	☼	05/28/14 08:45	05/29/14 10:48	1
Arsenic	4.2		0.59	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Barium	20		0.59	0.063	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Beryllium	0.20	J	0.23	0.047	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Boron	3.8		2.9	0.59	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Cadmium	1.7		0.12	0.015	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Calcium	72000		120	32	mg/Kg	☼	05/28/14 08:45	05/30/14 23:01	10
Chromium	5.5		0.59	0.068	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Cobalt	5.6		0.29	0.059	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Copper	11		0.59	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Iron	11000		12	4.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Lead	5.1		0.29	0.087	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Magnesium	37000		5.9	1.2	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Manganese	620		0.59	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Nickel	13		0.59	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Potassium	750		29	1.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Sodium	800		59	7.8	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Thallium	0.88		0.59	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Vanadium	7.4		0.29	0.043	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1
Zinc	28		1.2	0.24	mg/Kg	☼	05/28/14 08:45	05/29/14 10:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0032	J	0.0050	0.0020	mg/L		06/04/14 09:30	06/04/14 20:55	1
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:30	06/04/14 20:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:30	06/04/14 20:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B06

Lab Sample ID: 500-77279-27

Date Collected: 05/19/14 15:05

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.6		0.025	0.010	mg/L		06/04/14 09:30	06/04/14 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		05/28/14 09:30	05/29/14 08:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 08:02	1
Boron	0.077	J	0.10	0.050	mg/L		05/28/14 09:30	05/29/14 08:02	1
Cadmium	0.0066		0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 08:02	1
Chromium	0.047		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:02	1
Cobalt	0.015	J	0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:02	1
Iron	54		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 08:02	1
Lead	0.028		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 08:02	1
Manganese	0.27		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:02	1
Nickel	0.057		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:02	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 08:02	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:02	1
Zinc	0.19		0.10	0.020	mg/L		05/28/14 09:30	05/29/14 08:02	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		05/28/14 09:30	05/28/14 19:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 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
Mercury	0.012	J	0.018	0.0071	mg/Kg	☼	05/22/14 15:00	05/23/14 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			05/23/14 15:17	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B07

Lab Sample ID: 500-77279-28

Date Collected: 05/19/14 15:15

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 79.3

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	☼	05/20/14 15:00	05/22/14 15:23	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	05/20/14 15:00	05/22/14 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	05/20/14 15:00	05/22/14 15:23	1
Dibromofluoromethane	107		75 - 120	05/20/14 15:00	05/22/14 15:23	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/20/14 15:00	05/22/14 15:23	1
Toluene-d8 (Surr)	106		75 - 122	05/20/14 15:00	05/22/14 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	0.093	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B07

Lab Sample ID: 500-77279-28

Date Collected: 05/19/14 15:15

Matrix: Solid

Date Received: 05/20/14 10:25

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	<0.21		0.21	0.050	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.34	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B07

Lab Sample ID: 500-77279-28

Date Collected: 05/19/14 15:15

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
Benzo[g,h,i]perylene	<0.041	*	0.041	0.013	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/30/14 07:31	06/02/14 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		25 - 110	05/30/14 07:31	06/02/14 22:55	1
Phenol-d5	31		31 - 110	05/30/14 07:31	06/02/14 22:55	1
Nitrobenzene-d5	37		25 - 115	05/30/14 07:31	06/02/14 22:55	1
2-Fluorobiphenyl	34		25 - 119	05/30/14 07:31	06/02/14 22:55	1
2,4,6-Tribromophenol	41		35 - 137	05/30/14 07:31	06/02/14 22:55	1
Terphenyl-d14	47		36 - 134	05/30/14 07:31	06/02/14 22:55	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	☼	05/28/14 08:45	05/29/14 10:54	1
Arsenic	9.7		0.62	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Barium	73		0.62	0.067	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Beryllium	0.66		0.25	0.050	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Boron	1.4 J		3.1	0.62	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Cadmium	2.7		0.12	0.016	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Calcium	2900		12	3.4	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Chromium	14		0.62	0.072	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Cobalt	9.3		0.31	0.062	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Copper	18		0.62	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Iron	19000		12	5.1	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Lead	13		0.31	0.093	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Magnesium	3200		6.2	1.3	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Manganese	700		0.62	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Nickel	24		0.62	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Potassium	820		31	1.9	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Selenium	0.48 J		0.62	0.22	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Sodium	1100		62	8.4	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Thallium	1.5		0.62	0.26	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Vanadium	25		0.31	0.046	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1
Zinc	42		1.2	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 10:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:30	06/04/14 21:00	1
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:30	06/04/14 21:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:30	06/04/14 21:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B07

Lab Sample ID: 500-77279-28

Date Collected: 05/19/14 15:15

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.14		0.025	0.010	mg/L		06/04/14 09:30	06/04/14 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29	J	0.50	0.050	mg/L		05/28/14 09:30	05/29/14 08:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 08:09	1
Boron	0.070	J	0.10	0.050	mg/L		05/28/14 09:30	05/29/14 08:09	1
Cadmium	0.011		0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 08:09	1
Chromium	0.087		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:09	1
Cobalt	0.011	J	0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:09	1
Iron	89		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 08:09	1
Lead	0.024		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 08:09	1
Manganese	0.33		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:09	1
Nickel	0.069		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:09	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 08:09	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:09	1
Zinc	0.29		0.10	0.020	mg/L		05/28/14 09:30	05/29/14 08:09	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		05/28/14 09:30	05/28/14 19:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0078	mg/Kg	☼	05/22/14 15:00	05/23/14 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.12		0.200	0.200	SU			05/23/14 15:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B08

Lab Sample ID: 500-77279-29

Date Collected: 05/19/14 15:20

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 75.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.038		0.0051	0.0022	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Bromodichloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Bromomethane	<0.0051		0.0051	0.0016	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
2-Butanone (MEK)	0.0082		0.0051	0.0019	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Carbon tetrachloride	<0.0051		0.0051	0.00094	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Dibromochloromethane	<0.0051		0.0051	0.00090	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00083	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Tetrachloroethene	<0.0051		0.0051	0.00079	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Vinyl acetate	<0.0051		0.0051	0.00081	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	05/20/14 15:00	05/22/14 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	05/20/14 15:00	05/22/14 15:47	1
Dibromofluoromethane	114		75 - 120	05/20/14 15:00	05/22/14 15:47	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	05/20/14 15:00	05/22/14 15:47	1
Toluene-d8 (Surr)	105		75 - 122	05/20/14 15:00	05/22/14 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.094	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B08

Lab Sample ID: 500-77279-29

Date Collected: 05/19/14 15:20

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 75.6

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	0.050	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2-Methylnaphthalene	<0.042		0.042	0.0078	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.34	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B08

Lab Sample ID: 500-77279-29

Date Collected: 05/19/14 15:20

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 75.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
Benzo[g,h,i]perylene	<0.042	*	0.042	0.014	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/30/14 07:31	06/02/14 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110	05/30/14 07:31	06/02/14 23:14	1
Phenol-d5	33		31 - 110	05/30/14 07:31	06/02/14 23:14	1
Nitrobenzene-d5	36		25 - 115	05/30/14 07:31	06/02/14 23:14	1
2-Fluorobiphenyl	34		25 - 119	05/30/14 07:31	06/02/14 23:14	1
2,4,6-Tribromophenol	47		35 - 137	05/30/14 07:31	06/02/14 23:14	1
Terphenyl-d14	46		36 - 134	05/30/14 07:31	06/02/14 23:14	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	☼	05/28/14 08:45	05/29/14 11:03	1
Arsenic	5.2		0.65	0.13	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Barium	120		0.65	0.069	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Beryllium	0.55		0.26	0.052	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Boron	2.2	J	3.2	0.65	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Cadmium	1.9		0.13	0.016	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Calcium	7100		13	3.5	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Chromium	10		0.65	0.075	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Cobalt	6.1		0.32	0.065	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Copper	11		0.65	0.13	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Iron	13000		13	5.3	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Lead	12		0.32	0.097	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Magnesium	4000		6.5	1.3	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Manganese	580		0.65	0.13	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Nickel	11		0.65	0.13	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Potassium	760		32	1.9	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Selenium	0.53	J	0.65	0.23	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Sodium	1400		65	8.7	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Thallium	1.0		0.65	0.27	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Vanadium	18		0.32	0.048	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1
Zinc	41		1.3	0.26	mg/Kg	☼	05/28/14 08:45	05/29/14 11:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/04/14 09:30	06/04/14 21:13	1
Iron	0.20		0.20	0.20	mg/L		06/04/14 09:30	06/04/14 21:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:30	06/04/14 21:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B08

Lab Sample ID: 500-77279-29

Date Collected: 05/19/14 15:20

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.1		0.025	0.010	mg/L		06/04/14 09:30	06/04/14 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		05/28/14 09:30	05/29/14 08:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 08:15	1
Boron	0.83		0.10	0.050	mg/L		05/28/14 09:30	05/29/14 08:15	1
Cadmium	0.017		0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 08:15	1
Chromium	0.10		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:15	1
Cobalt	0.026		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:15	1
Iron	130		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 08:15	1
Lead	0.057		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 08:15	1
Manganese	1.1		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:15	1
Nickel	0.063		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:15	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 08:15	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:15	1
Zinc	0.36		0.10	0.020	mg/L		05/28/14 09:30	05/29/14 08:15	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		05/28/14 09:30	05/28/14 19:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0076	mg/Kg	☼	05/22/14 15:00	05/23/14 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			05/23/14 15:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B09

Lab Sample ID: 500-77279-30

Date Collected: 05/19/14 15:40

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.031		0.0049	0.0021	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
2-Butanone (MEK)	0.0065		0.0049	0.0018	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	05/20/14 15:00	05/22/14 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	05/20/14 15:00	05/22/14 16:09	1
Dibromofluoromethane	113		75 - 120	05/20/14 15:00	05/22/14 16:09	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	05/20/14 15:00	05/22/14 16:09	1
Toluene-d8 (Surr)	107		75 - 122	05/20/14 15:00	05/22/14 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B09

Lab Sample ID: 500-77279-30

Date Collected: 05/19/14 15:40

Matrix: Solid

Date Received: 05/20/14 10:25

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	☼	05/30/14 07:31	06/02/14 23:33	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Pentachlorophenol	<0.79		0.79	0.62	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Fluoranthene	0.010	J	0.039	0.0072	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B09

Lab Sample ID: 500-77279-30

Date Collected: 05/19/14 15:40

Matrix: Solid

Date Received: 05/20/14 10:25

Percent Solids: 80.7

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	☼	05/30/14 07:31	06/02/14 23:33	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/30/14 07:31	06/02/14 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110	05/30/14 07:31	06/02/14 23:33	1
Phenol-d5	35		31 - 110	05/30/14 07:31	06/02/14 23:33	1
Nitrobenzene-d5	35		25 - 115	05/30/14 07:31	06/02/14 23:33	1
2-Fluorobiphenyl	34		25 - 119	05/30/14 07:31	06/02/14 23:33	1
2,4,6-Tribromophenol	51		35 - 137	05/30/14 07:31	06/02/14 23:33	1
Terphenyl-d14	43		36 - 134	05/30/14 07:31	06/02/14 23:33	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	☼	05/28/14 08:45	05/29/14 11:09	1
Arsenic	5.6		0.61	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Barium	97		0.61	0.066	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Beryllium	0.47		0.25	0.049	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Boron	2.3	J	3.1	0.61	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Cadmium	1.9		0.12	0.016	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Calcium	22000		12	3.3	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Chromium	9.9		0.61	0.071	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Cobalt	6.0		0.31	0.061	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Copper	14		0.61	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Iron	12000		12	5.0	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Lead	19		0.31	0.091	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Magnesium	14000		6.1	1.3	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Manganese	480		0.61	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Nickel	11		0.61	0.12	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Potassium	1000		31	1.8	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Selenium	0.45	J	0.61	0.22	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Sodium	1200		61	8.2	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Thallium	0.79		0.61	0.26	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Vanadium	20		0.31	0.045	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1
Zinc	49		1.2	0.25	mg/Kg	☼	05/28/14 08:45	05/29/14 11:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0023	J	0.0050	0.0020	mg/L		06/04/14 09:30	06/04/14 21:18	1
Iron	<0.20		0.20	0.20	mg/L		06/04/14 09:30	06/04/14 21:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/04/14 09:30	06/04/14 21:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Client Sample ID: 2819-42-B09

Lab Sample ID: 500-77279-30

Date Collected: 05/19/14 15:40

Matrix: Solid

Date Received: 05/20/14 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.5		0.025	0.010	mg/L		06/04/14 09:30	06/04/14 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		05/28/14 09:30	05/29/14 08:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/14 09:30	05/29/14 08:36	1
Boron	0.89		0.10	0.050	mg/L		05/28/14 09:30	05/29/14 08:36	1
Cadmium	0.0079		0.0050	0.0020	mg/L		05/28/14 09:30	05/29/14 08:36	1
Chromium	0.060		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:36	1
Cobalt	0.016	J	0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:36	1
Iron	57		0.20	0.20	mg/L		05/28/14 09:30	05/29/14 08:36	1
Lead	0.049		0.0075	0.0075	mg/L		05/28/14 09:30	05/29/14 08:36	1
Manganese	0.63		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:36	1
Nickel	0.052		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:36	1
Selenium	<0.050		0.050	0.010	mg/L		05/28/14 09:30	05/29/14 08:36	1
Silver	<0.025		0.025	0.010	mg/L		05/28/14 09:30	05/29/14 08:36	1
Zinc	0.24		0.10	0.020	mg/L		05/28/14 09:30	05/29/14 08:36	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		05/28/14 09:30	05/28/14 19:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/14 09:30	05/28/14 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00020	0.00010	mg/L		05/28/14 17:15	05/29/14 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.019	0.0075	mg/Kg	☼	05/22/14 15:00	05/23/14 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61		0.200	0.200	SU			05/23/14 15:22	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77279-12

Qualifiers

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.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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: US30 Sugar Grove, Kaneo Project No.: IDOT 2013-074 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: CF/CM	COC No.: 1 of 1 Lab Job No.: 500-77279 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	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	
27	2819-42-B01	5/19	3:05	S	X						X	X	X	X			
28	2819-42-B02		3:15		X						X	X	X	X			
29	2819-42-B03		3:20		X						X	X	X	X			
30	2819-42-B04		3:40		X						X	X	X	X			
31	2819-42-B05		3:45		X						X	X	X	X			
32	2819-42-B06		3:50		X						X	X	X	X			
	2819-42-B07																
	2819-42-B08																
	2819-42-B09																
	2819-42-B10 DUP																
	2819-42-B11																
Relinquished by: [Signature]					Date/Time	Received by: [Signature]											Date/Time
Relinquished by: [Signature]					Date/Time	Received by: [Signature]											Date/Time
Relinquished by: [Signature]					Date/Time	Received by: [Signature]											Date/Time

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77465-3
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 9:08:10 AM

Richard Wright, Senior Project Manager
(708)534-5200
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B01

Lab Sample ID: 500-77465-17

Date Collected: 05/21/14 11:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.3

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	☼	05/22/14 17:45	05/30/14 06:20	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Dibromochloromethane	<0.0050		0.0050	0.00088	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
1,1,1-Dichloroethane	<0.0050		0.0050	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
1,2-Dichloropropane	<0.0050		0.0050	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Toluene	<0.0050		0.0050	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/22/14 17:45	05/30/14 06:20	1
Dibromofluoromethane	106		75 - 120	05/22/14 17:45	05/30/14 06:20	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	05/22/14 17:45	05/30/14 06:20	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 06:20	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	☼	06/02/14 07:15	06/03/14 20:57	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B01

Lab Sample ID: 500-77465-17

Date Collected: 05/21/14 11:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.3

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	☼	06/02/14 07:15	06/03/14 20:57	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Pentachlorophenol	<0.83	*	0.83	0.66	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Fluoranthene	0.0098	J	0.041	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B01

Lab Sample ID: 500-77465-17

Date Collected: 05/21/14 11:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110				06/02/14 07:15	06/03/14 20:57	1
Phenol-d5	62		31 - 110				06/02/14 07:15	06/03/14 20:57	1
Nitrobenzene-d5	58		25 - 115				06/02/14 07:15	06/03/14 20:57	1
2-Fluorobiphenyl	60		25 - 119				06/02/14 07:15	06/03/14 20:57	1
2,4,6-Tribromophenol	86		35 - 137				06/02/14 07:15	06/03/14 20:57	1
Terphenyl-d14	72		36 - 134				06/02/14 07:15	06/03/14 20:57	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	☼	06/02/14 17:00	06/03/14 15:40	1
Arsenic	9.7		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Barium	130		0.64	0.069	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Beryllium	0.57		0.26	0.052	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Boron	2.6 J		3.2	0.64	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Cadmium	0.21		0.13	0.016	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Calcium	3900		13	3.5	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Chromium	16		0.64	0.075	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Cobalt	8.1		0.32	0.064	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Copper	13		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Iron	20000		13	5.3	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Lead	11 B		0.32	0.096	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Magnesium	4100		6.4	1.3	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Manganese	510		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Nickel	15		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Potassium	1600		32	1.9	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Selenium	0.70		0.64	0.23	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Sodium	980		64	8.6	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Thallium	1.3		0.64	0.27	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Vanadium	29		0.32	0.048	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1
Zinc	42 B		1.3	0.26	mg/Kg	☼	06/02/14 17:00	06/03/14 15:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/13/14 08:30	06/13/14 20:28	1
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:28	1
Iron	1.0		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 20:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B01

Lab Sample ID: 500-77465-17

Date Collected: 05/21/14 11:40

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.018		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 20:28	1
Manganese	0.33		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:28	1
Nickel	0.012	J	0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.2		0.50	0.050	mg/L		06/05/14 15:00	06/06/14 18:54	1
Beryllium	0.0092		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 18:54	1
Boron	0.15	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 18:54	1
Cadmium	0.0047	J	0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 18:54	1
Chromium	0.30		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:54	1
Cobalt	0.039		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:54	1
Iron	320		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 18:54	1
Lead	0.093		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 18:54	1
Manganese	0.97		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:54	1
Nickel	0.16		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:54	1
Selenium	0.012	J	0.050	0.010	mg/L		06/05/14 15:00	06/06/14 18:54	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 18:54	1
Zinc	0.82		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 18:54	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		06/13/14 08:30	06/16/14 12:41	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		06/05/14 15:00	06/06/14 16:33	1
Thallium	0.0023		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 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
Mercury	0.038		0.019	0.0076	mg/Kg	☼	05/28/14 14:30	05/29/14 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54		0.200	0.200	SU			05/28/14 15:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B02

Lab Sample ID: 500-77465-18

Date Collected: 05/21/14 11:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.037		0.0049	0.0021	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
2-Butanone (MEK)	0.011		0.0049	0.0018	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	05/22/14 17:45	05/30/14 06:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	05/22/14 17:45	05/30/14 06:44	1
Dibromofluoromethane	109		75 - 120	05/22/14 17:45	05/30/14 06:44	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/22/14 17:45	05/30/14 06:44	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 06:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.094	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B02

Lab Sample ID: 500-77465-18

Date Collected: 05/21/14 11:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 76.1

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	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2-Methylnaphthalene	<0.042		0.042	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Pentachlorophenol	<0.85	*	0.85	0.68	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.34	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Phenanthrene	0.029	J	0.042	0.0059	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Fluoranthene	0.039	J	0.042	0.0078	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Pyrene	0.028	J	0.042	0.0084	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Benzo[a]anthracene	0.012	J	0.042	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B02

Lab Sample ID: 500-77465-18

Date Collected: 05/21/14 11:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Benzo[b]fluoranthene	0.021	J	0.042	0.0091	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
Benzo[g,h,i]perylene	0.016	J	0.042	0.014	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	06/02/14 07:15	06/03/14 21:16	1
Phenol-d5	51		31 - 110	06/02/14 07:15	06/03/14 21:16	1
Nitrobenzene-d5	48		25 - 115	06/02/14 07:15	06/03/14 21:16	1
2-Fluorobiphenyl	52		25 - 119	06/02/14 07:15	06/03/14 21:16	1
2,4,6-Tribromophenol	76		35 - 137	06/02/14 07:15	06/03/14 21:16	1
Terphenyl-d14	65		36 - 134	06/02/14 07:15	06/03/14 21:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Arsenic	6.8		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Barium	130		0.64	0.068	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Beryllium	0.58		0.25	0.051	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Boron	5.6		3.2	0.64	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Cadmium	0.35		0.13	0.016	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Calcium	18000		13	3.4	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Chromium	14		0.64	0.074	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Cobalt	6.7		0.32	0.064	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Copper	14		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Iron	15000		13	5.2	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Lead	20	B	0.32	0.095	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Magnesium	11000		6.4	1.3	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Manganese	590		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Nickel	12		0.64	0.13	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Potassium	1600		32	1.9	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Selenium	0.60	J	0.64	0.23	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Sodium	610		64	8.5	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Thallium	1.2		0.64	0.27	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Vanadium	29		0.32	0.047	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1
Zinc	62	B	1.3	0.26	mg/Kg	☼	06/02/14 17:00	06/03/14 15:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 20:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 20:33	1
Manganese	4.7		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B02

Lab Sample ID: 500-77465-18

Date Collected: 05/21/14 11:30

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J	0.50	0.050	mg/L		06/05/14 15:00	06/06/14 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 19:00	1
Boron	0.076	J B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 19:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 19:00	1
Chromium	0.033		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:00	1
Cobalt	0.010	J	0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:00	1
Iron	35		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 19:00	1
Lead	0.041		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 19:00	1
Manganese	0.27		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:00	1
Nickel	0.026		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:00	1
Selenium	<0.050		0.050	0.010	mg/L		06/05/14 15:00	06/06/14 19:00	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:00	1
Zinc	0.17		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/05/14 15:00	06/06/14 16:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00032		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0076	mg/Kg	✱	05/28/14 14:30	05/29/14 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.20		0.200	0.200	SU			05/28/14 15:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B04

Lab Sample ID: 500-77465-20

Date Collected: 05/21/14 11:00

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.3

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	☼	05/22/14 17:45	05/30/14 07:32	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	05/22/14 17:45	05/30/14 07:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/22/14 17:45	05/30/14 07:32	1
Dibromofluoromethane	106		75 - 120	05/22/14 17:45	05/30/14 07:32	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/22/14 17:45	05/30/14 07:32	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 07:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B04

Lab Sample ID: 500-77465-20

Date Collected: 05/21/14 11:00

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.3

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	0.049	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Pentachlorophenol	<0.82	*	0.82	0.65	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Fluoranthene	<0.040		0.040	0.0076	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B04

Lab Sample ID: 500-77465-20

Date Collected: 05/21/14 11:00

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.3

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	☼	06/02/14 07:15	06/03/14 21:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	06/02/14 07:15	06/03/14 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	06/02/14 07:15	06/03/14 21:54	1
Phenol-d5	56		31 - 110	06/02/14 07:15	06/03/14 21:54	1
Nitrobenzene-d5	60		25 - 115	06/02/14 07:15	06/03/14 21:54	1
2-Fluorobiphenyl	55		25 - 119	06/02/14 07:15	06/03/14 21:54	1
2,4,6-Tribromophenol	69		35 - 137	06/02/14 07:15	06/03/14 21:54	1
Terphenyl-d14	67		36 - 134	06/02/14 07:15	06/03/14 21:54	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	☼	06/02/14 17:00	06/03/14 15:52	1
Arsenic	8.7		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Barium	140		0.62	0.067	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Beryllium	0.67		0.25	0.050	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Boron	3.4		3.1	0.62	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Cadmium	0.22		0.12	0.016	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Calcium	3600		12	3.4	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Chromium	17		0.62	0.072	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Cobalt	9.1		0.31	0.062	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Copper	17		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Iron	19000		12	5.1	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Lead	12 B		0.31	0.093	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Magnesium	4000		6.2	1.3	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Manganese	790		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Nickel	29		0.62	0.12	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Potassium	930		31	1.9	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Selenium	0.73		0.62	0.22	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Sodium	1200		62	8.3	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Thallium	1.6		0.62	0.26	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Vanadium	31		0.31	0.046	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1
Zinc	40 B		1.2	0.25	mg/Kg	☼	06/02/14 17:00	06/03/14 15:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/13/14 08:30	06/13/14 20:51	1
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:51	1
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 20:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B04

Lab Sample ID: 500-77465-20

Date Collected: 05/21/14 11:00

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 20:51	1
Manganese	0.053		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:51	1
Nickel	0.011	J	0.025	0.010	mg/L		06/13/14 08:30	06/13/14 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.050	mg/L		06/05/14 15:00	06/06/14 19:12	1
Beryllium	0.0067		0.0040	0.0040	mg/L		06/05/14 15:00	06/06/14 19:12	1
Boron	0.11	B	0.10	0.050	mg/L		06/05/14 15:00	06/06/14 19:12	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		06/05/14 15:00	06/06/14 19:12	1
Chromium	0.18		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:12	1
Cobalt	0.028		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:12	1
Iron	200		0.20	0.20	mg/L		06/05/14 15:00	06/06/14 19:12	1
Lead	0.055		0.0075	0.0075	mg/L		06/05/14 15:00	06/06/14 19:12	1
Manganese	1.2		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:12	1
Nickel	0.14		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:12	1
Selenium	0.010	J	0.050	0.010	mg/L		06/05/14 15:00	06/06/14 19:12	1
Silver	<0.025		0.025	0.010	mg/L		06/05/14 15:00	06/06/14 19:12	1
Zinc	0.40		0.10	0.020	mg/L		06/05/14 15:00	06/06/14 19:12	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		06/13/14 08:30	06/16/14 12:45	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		06/05/14 15:00	06/06/14 16:44	1
Thallium	0.0021		0.0020	0.0020	mg/L		06/05/14 15:00	06/06/14 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00050		0.00020	0.00010	mg/L		06/05/14 13:15	06/06/14 12:22	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	0.038		0.020	0.0080	mg/Kg	☼	05/28/14 14:30	05/29/14 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54		0.200	0.200	SU			05/28/14 15:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B05

Lab Sample ID: 500-77465-21

Date Collected: 05/21/14 10:45

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 87.8

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	☼	05/22/14 17:45	05/30/14 07:56	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Chloroethane	<0.0043	*	0.0043	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	05/22/14 17:45	05/30/14 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	05/22/14 17:45	05/30/14 07:56	1
Dibromofluoromethane	105		75 - 120	05/22/14 17:45	05/30/14 07:56	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/22/14 17:45	05/30/14 07:56	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B05

Lab Sample ID: 500-77465-21

Date Collected: 05/21/14 10:45

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 87.8

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	0.044	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B05

Lab Sample ID: 500-77465-21

Date Collected: 05/21/14 10:45

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 87.8

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	☼	06/03/14 07:16	06/05/14 01:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/03/14 07:16	06/05/14 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	06/03/14 07:16	06/05/14 01:59	1
Phenol-d5	63		31 - 110	06/03/14 07:16	06/05/14 01:59	1
Nitrobenzene-d5	55		25 - 115	06/03/14 07:16	06/05/14 01:59	1
2-Fluorobiphenyl	59		25 - 119	06/03/14 07:16	06/05/14 01:59	1
2,4,6-Tribromophenol	53		35 - 137	06/03/14 07:16	06/05/14 01:59	1
Terphenyl-d14	80		36 - 134	06/03/14 07:16	06/05/14 01:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.6		5.6	2.2	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Arsenic	3.8		2.8	0.55	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Barium	29		2.8	0.30	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Beryllium	0.34	J	1.1	0.22	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Boron	13	J	14	2.8	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Cadmium	<0.56		0.56	0.071	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Calcium	120000	B	56	15	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Chromium	7.7		2.8	0.32	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Cobalt	4.6		1.4	0.28	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Copper	11		2.8	0.56	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Iron	10000		56	23	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Lead	6.9		1.4	0.42	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Magnesium	68000	B	28	5.7	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Manganese	340		2.8	0.56	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Nickel	10		2.8	0.56	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Potassium	990		140	8.4	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Selenium	<2.8		2.8	0.99	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Silver	<1.4		1.4	0.10	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Sodium	680		280	37	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Thallium	<2.8		2.8	1.2	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Vanadium	13		1.4	0.21	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5
Zinc	29		5.6	1.1	mg/Kg	☼	06/04/14 16:00	06/06/14 12:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.076	J	0.50	0.050	mg/L		06/06/14 09:50	06/06/14 19:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 19:41	1
Boron	0.28		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 19:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B05

Lab Sample ID: 500-77465-21

Date Collected: 05/21/14 10:45

Matrix: Solid

Date Received: 05/22/14 12:10

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		06/06/14 09:50	06/06/14 19:41	1
Chromium	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 19:41	1
Cobalt	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 19:41	1
Iron	3.1		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 19:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 19:41	1
Manganese	0.033		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 19:41	1
Nickel	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 19:41	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 19:41	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 19:41	1
Zinc	0.026	J	0.10	0.020	mg/L		06/06/14 09:50	06/06/14 19:41	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		06/06/14 09:50	06/06/14 17:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/06/14 12:30	06/09/14 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
Mercury	0.0070	J	0.016	0.0065	mg/Kg	☆	05/28/14 14:30	05/29/14 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			05/28/14 15:45	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Qualifiers

GC/MS 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.

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

Metals

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

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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: US 30 Super Grose, Kansas Co Project No.: IDOT 2013-074 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	COC No.: 1 of 1 Lab Job No.: 500-77465 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.

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
17	2819-42-B01	5/21	11:40	S	X	X					X	X	X	X		
18	" - " - B02		11:30	S	X	X					X	X	X	X		
19	" - " - B03		11:25	S	X	X					X	X	X	X		
20	" - " - B04		11:00	S	X	X					X	X	X	X		
21	" - " - B05		10:45	S	X	X					X	X	X	X		
22	" - " - B17		10:20	S	X	X					X	X	X	X		
23	" - " - B18		10:05	S	X	X					X	X	X	X		

Relinquished by: [Signature]	Date/Time: 5/21/14	Received by: [Signature]	Date/Time: 5/21/14 5:21
Relinquished by: [Signature]	Date/Time: 5:00 AM	Received by: [Signature]	Date/Time: 5/22/14 09:25
Relinquished by: [Signature]	Date/Time: 5/22/14 12:14	Received by: [Signature]	Date/Time: 5/22/14 12:10

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: 500-77374-1
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson



Authorized for release by:
6/11/2014 10:05:37 AM

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

LINKS

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B12

Lab Sample ID: 500-77374-1

Date Collected: 05/20/14 09:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.0

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	☼	05/21/14 17:20	05/23/14 14:05	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	05/21/14 17:20	05/23/14 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	05/21/14 17:20	05/23/14 14:05	1
Dibromofluoromethane	106		75 - 120	05/21/14 17:20	05/23/14 14:05	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/21/14 17:20	05/23/14 14:05	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/23/14 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B12

Lab Sample ID: 500-77374-1

Date Collected: 05/20/14 09:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.0

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	0.050	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.34	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B12

Lab Sample ID: 500-77374-1

Date Collected: 05/20/14 09:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/31/14 22:14	06/03/14 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	05/31/14 22:14	06/03/14 02:07	1
Phenol-d5	49		31 - 110	05/31/14 22:14	06/03/14 02:07	1
Nitrobenzene-d5	51		25 - 115	05/31/14 22:14	06/03/14 02:07	1
2-Fluorobiphenyl	50		25 - 119	05/31/14 22:14	06/03/14 02:07	1
2,4,6-Tribromophenol	78		35 - 137	05/31/14 22:14	06/03/14 02:07	1
Terphenyl-d14	69		36 - 134	05/31/14 22:14	06/03/14 02:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Arsenic	7.7		0.63	0.13	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Barium	92		0.63	0.067	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Beryllium	0.51		0.25	0.050	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Boron	3.2		3.2	0.63	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Cadmium	0.030	J	0.13	0.016	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Calcium	4300		13	3.4	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Chromium	16		0.63	0.073	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Cobalt	5.6		0.32	0.063	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Copper	17		0.63	0.13	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Iron	19000		13	5.2	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Lead	10		0.32	0.094	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Magnesium	4000		6.3	1.3	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Manganese	300		0.63	0.13	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Nickel	15		0.63	0.13	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Potassium	930		32	1.9	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Selenium	0.51	J	0.63	0.22	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Sodium	1500		63	8.4	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Thallium	0.97		0.63	0.27	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Vanadium	25		0.32	0.047	mg/Kg	☼	05/29/14 09:57	05/31/14 08:54	1
Zinc	48		1.3	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 17:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 08:15	06/06/14 19:07	1
Chromium	<0.025		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 19:07	1
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 19:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B12

Lab Sample ID: 500-77374-1

Date Collected: 05/20/14 09:25

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 19:07	1
Manganese	0.089		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 19:07	1
Nickel	<0.025		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.91		0.50	0.050	mg/L		05/29/14 12:00	05/31/14 05:30	1
Beryllium	0.0059		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 05:30	1
Boron	0.13	J B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 05:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 05:30	1
Chromium	0.20		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:30	1
Cobalt	0.027		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:30	1
Iron	200		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 05:30	1
Lead	0.054		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 05:30	1
Manganese	0.60		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:30	1
Nickel	0.11		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:30	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 05:30	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:30	1
Zinc	0.49	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 05:30	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		06/06/14 08:15	06/06/14 17:08	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		05/29/14 12:00	05/30/14 16:15	1
Thallium	0.0026		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00080	B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0073	mg/Kg	☼	05/23/14 15:00	05/27/14 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			05/27/14 13:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B13

Lab Sample ID: 500-77374-2

Date Collected: 05/20/14 09:30

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 78.6

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	☼	05/21/14 17:20	05/23/14 14:29	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Chloroethane	<0.0046	*	0.0046	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	05/21/14 17:20	05/23/14 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/21/14 17:20	05/23/14 14:29	1
Dibromofluoromethane	106		75 - 120	05/21/14 17:20	05/23/14 14:29	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/21/14 17:20	05/23/14 14:29	1
Toluene-d8 (Surr)	102		75 - 122	05/21/14 17:20	05/23/14 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B13

Lab Sample ID: 500-77374-2

Date Collected: 05/20/14 09:30

Matrix: Solid

Date Received: 05/21/14 12:20

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	☼	05/31/14 22:14	06/03/14 02:26	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B13

Lab Sample ID: 500-77374-2

Date Collected: 05/20/14 09:30

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/31/14 22:14	06/03/14 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	41		25 - 110	05/31/14 22:14	06/03/14 02:26	1
Phenol-d5	39		31 - 110	05/31/14 22:14	06/03/14 02:26	1
Nitrobenzene-d5	37		25 - 115	05/31/14 22:14	06/03/14 02:26	1
2-Fluorobiphenyl	37		25 - 119	05/31/14 22:14	06/03/14 02:26	1
2,4,6-Tribromophenol	62		35 - 137	05/31/14 22:14	06/03/14 02:26	1
Terphenyl-d14	52		36 - 134	05/31/14 22:14	06/03/14 02:26	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	☼	05/29/14 09:57	05/31/14 09:26	1
Arsenic	2.9		0.61	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Barium	71		0.61	0.066	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Beryllium	0.56		0.25	0.049	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Boron	2.0 J		3.1	0.61	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Calcium	3400		12	3.3	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Chromium	15		0.61	0.071	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Cobalt	3.3		0.31	0.061	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Copper	13		0.61	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Iron	15000		12	5.0	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Lead	7.0		0.31	0.091	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Magnesium	3600		6.1	1.3	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Manganese	79		0.61	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Nickel	12		0.61	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Potassium	810		31	1.8	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Selenium	0.22 J		0.61	0.22	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Silver	0.031 J		0.31	0.022	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Sodium	1500		61	8.2	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Thallium	0.50 J		0.61	0.26	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Vanadium	19		0.31	0.045	mg/Kg	☼	05/29/14 09:57	05/31/14 09:26	1
Zinc	64		1.2	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 18:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 19:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 19:35	1
Manganese	0.087		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 19:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B13

Lab Sample ID: 500-77374-2

Date Collected: 05/20/14 09:30

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.050	mg/L		05/29/14 12:00	05/31/14 05:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 05:36	1
Boron	1.2	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 05:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 05:36	1
Chromium	0.10		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:36	1
Cobalt	0.014	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:36	1
Iron	86		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 05:36	1
Lead	0.027		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 05:36	1
Manganese	0.26		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:36	1
Nickel	0.054		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:36	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 05:36	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:36	1
Zinc	0.38	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 05:36	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		05/29/14 12:00	05/30/14 16:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00033	B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.021	0.0082	mg/Kg	✪	05/23/14 15:00	05/27/14 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			05/27/14 13:04	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B15

Lab Sample ID: 500-77374-4

Date Collected: 05/20/14 09:45

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Chloroethane	<0.0043	*	0.0043	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	05/21/14 17:20	05/23/14 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	05/21/14 17:20	05/23/14 15:17	1
Dibromofluoromethane	106		75 - 120	05/21/14 17:20	05/23/14 15:17	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	05/21/14 17:20	05/23/14 15:17	1
Toluene-d8 (Surr)	100		75 - 122	05/21/14 17:20	05/23/14 15:17	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	☼	05/31/14 22:14	06/03/14 03:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B15

Lab Sample ID: 500-77374-4

Date Collected: 05/20/14 09:45

Matrix: Solid

Date Received: 05/21/14 12:20

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	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B15

Lab Sample ID: 500-77374-4

Date Collected: 05/20/14 09:45

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 80.7

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	☼	05/31/14 22:14	06/03/14 03:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/31/14 22:14	06/03/14 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110	05/31/14 22:14	06/03/14 03:04	1
Phenol-d5	35		31 - 110	05/31/14 22:14	06/03/14 03:04	1
Nitrobenzene-d5	36		25 - 115	05/31/14 22:14	06/03/14 03:04	1
2-Fluorobiphenyl	35		25 - 119	05/31/14 22:14	06/03/14 03:04	1
2,4,6-Tribromophenol	52		35 - 137	05/31/14 22:14	06/03/14 03:04	1
Terphenyl-d14	47		36 - 134	05/31/14 22:14	06/03/14 03:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Arsenic	7.6		0.60	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Barium	97		0.60	0.064	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Beryllium	0.41		0.24	0.048	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Boron	3.7		3.0	0.60	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Cadmium	0.15		0.12	0.015	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Calcium	34000		12	3.3	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Chromium	12		0.60	0.070	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Cobalt	6.6		0.30	0.060	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Copper	16		0.60	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Iron	15000		12	4.9	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Lead	9.0		0.30	0.090	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Magnesium	22000		6.0	1.2	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Manganese	440		0.60	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Nickel	15		0.60	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Potassium	800		30	1.8	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Sodium	1900		60	8.1	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Thallium	1.1		0.60	0.25	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Vanadium	22		0.30	0.044	mg/Kg	☼	05/29/14 09:57	05/31/14 09:38	1
Zinc	40		1.2	0.24	mg/Kg	☼	05/29/14 09:57	06/02/14 18:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 19:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 19:45	1
Manganese	0.22		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 19:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B15

Lab Sample ID: 500-77374-4

Date Collected: 05/20/14 09:45

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 06:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 06:03	1
Boron	1.3	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 06:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 06:03	1
Chromium	0.068		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:03	1
Cobalt	0.010	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:03	1
Iron	60		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 06:03	1
Lead	0.018		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 06:03	1
Manganese	0.20		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:03	1
Nickel	0.039		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:03	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 06:03	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:03	1
Zinc	0.22	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 06:03	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		05/29/14 12:00	05/30/14 16:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0074	mg/Kg	✱	05/23/14 15:00	05/27/14 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU			05/27/14 13:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B11

Lab Sample ID: 500-77374-6

Date Collected: 05/20/14 09:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.4

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	☼	05/21/14 17:20	05/23/14 16:05	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	05/21/14 17:20	05/23/14 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/21/14 17:20	05/23/14 16:05	1
Dibromofluoromethane	108		75 - 120	05/21/14 17:20	05/23/14 16:05	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	05/21/14 17:20	05/23/14 16:05	1
Toluene-d8 (Surr)	100		75 - 122	05/21/14 17:20	05/23/14 16:05	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	☼	05/31/14 22:14	06/03/14 03:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B11

Lab Sample ID: 500-77374-6

Date Collected: 05/20/14 09:15

Matrix: Solid

Date Received: 05/21/14 12:20

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	<0.21		0.21	0.049	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B11

Lab Sample ID: 500-77374-6

Date Collected: 05/20/14 09:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/31/14 22:14	06/03/14 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		25 - 110				05/31/14 22:14	06/03/14 03:43	1
Phenol-d5	41		31 - 110				05/31/14 22:14	06/03/14 03:43	1
Nitrobenzene-d5	39		25 - 115				05/31/14 22:14	06/03/14 03:43	1
2-Fluorobiphenyl	39		25 - 119				05/31/14 22:14	06/03/14 03:43	1
2,4,6-Tribromophenol	54		35 - 137				05/31/14 22:14	06/03/14 03:43	1
Terphenyl-d14	59		36 - 134				05/31/14 22:14	06/03/14 03:43	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	☼	05/29/14 09:57	06/02/14 19:07	1
Arsenic	7.0		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Barium	89		0.62	0.066	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Beryllium	0.53		0.25	0.050	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Boron	3.7		3.1	0.62	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Cadmium	0.37		0.12	0.016	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Calcium	32000		12	3.4	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Chromium	12		0.62	0.072	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Cobalt	5.9		0.31	0.062	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Copper	17		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Iron	15000		12	5.1	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Lead	10		0.31	0.092	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Magnesium	21000	B	6.2	1.3	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Manganese	460		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Nickel	20		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Potassium	990		31	1.9	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Selenium	0.42	J	0.62	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Sodium	1200		62	8.3	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Thallium	0.95		0.62	0.26	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Vanadium	22		0.31	0.046	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1
Zinc	35		1.2	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 19:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 19:55	1
Lead	0.0083		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 19:55	1
Manganese	0.58		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 19:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B11

Lab Sample ID: 500-77374-6

Date Collected: 05/20/14 09:15

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 06:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 06:16	1
Boron	0.47	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 06:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 06:16	1
Chromium	0.065		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:16	1
Cobalt	0.010	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:16	1
Iron	63		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 06:16	1
Lead	0.035		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 06:16	1
Manganese	0.35		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:16	1
Nickel	0.057		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:16	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 06:16	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:16	1
Zinc	0.20	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 06:16	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		05/29/14 12:00	05/30/14 16:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0079	mg/Kg	✱	05/23/14 15:00	05/27/14 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			05/27/14 13:13	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

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.

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.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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

CHAIN OF CUSTODY RECORD

Client 500-77374 COC
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 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: US30 Superfund Kane Co
 Project No.: IDOT 2013-074
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: CF/cm

COC No.: 1 of 1
 Lab Job No.: 500-77374
 Sample Temp.: (2.6) (2.3) (3.0)
 Matrix Key:
 W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

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.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	2819-42-B12	5/20	9:25	S	X	X					X	X	X	X		D-6
2	2819-42-B13		9:30	S	X	X					X	X	X	X		
3	2819-42-B14		9:40	S	X	X					X	X	X	X		
4	2819-42-B15		9:45	S	X	X					X	X	X	X		
5	2819-42-B16		10:00	S	X	X					X	X	X	X		
	2819-42-B17			S	X	X					X	X	X	X		
	2819-42-B18			S	X	X					X	X	X	X		
6	2819-42-B11	5/20	9:15	S	X	X					X	X	X	X		0-6
Relinquished by: <u>[Signature]</u> Date/Time: <u>5/20/14 4:07</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>5/21/14 12:20</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>5/21/14 12:20</u>																

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: 500-77374-2
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson



Authorized for release by:
6/11/2014 10:06:49 AM

Richard Wright, Senior Project Manager
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LINKS

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www.testamericainc.com

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

Client Sample ID: 2819-43-B01

Lab Sample ID: 500-77374-7

Date Collected: 05/20/14 08:55

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Chloroethane	<0.0042	*	0.0042	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	05/21/14 17:20	05/23/14 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	05/21/14 17:20	05/23/14 16:29	1
Dibromofluoromethane	109		75 - 120	05/21/14 17:20	05/23/14 16:29	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/21/14 17:20	05/23/14 16:29	1
Toluene-d8 (Surr)	103		75 - 122	05/21/14 17:20	05/23/14 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

Client Sample ID: 2819-43-B01

Lab Sample ID: 500-77374-7

Date Collected: 05/20/14 08:55

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 89.7

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	0.043	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Phenanthrene	0.019	J	0.036	0.0050	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Fluoranthene	0.032	J	0.036	0.0067	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Pyrene	0.032	J	0.036	0.0071	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Benzo[a]anthracene	0.020	J	0.036	0.0048	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

Client Sample ID: 2819-43-B01

Lab Sample ID: 500-77374-7

Date Collected: 05/20/14 08:55

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Benzo[b]fluoranthene	0.018	J	0.036	0.0078	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
Benzo[g,h,i]perylene	0.020	J B	0.036	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	05/31/14 22:14	06/03/14 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		25 - 110	05/31/14 22:14	06/03/14 04:02	1
Phenol-d5	41		31 - 110	05/31/14 22:14	06/03/14 04:02	1
Nitrobenzene-d5	41		25 - 115	05/31/14 22:14	06/03/14 04:02	1
2-Fluorobiphenyl	44		25 - 119	05/31/14 22:14	06/03/14 04:02	1
2,4,6-Tribromophenol	63		35 - 137	05/31/14 22:14	06/03/14 04:02	1
Terphenyl-d14	56		36 - 134	05/31/14 22:14	06/03/14 04:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Arsenic	5.1		0.54	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Barium	28		0.54	0.057	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Beryllium	0.27		0.21	0.043	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Boron	7.0		2.7	0.54	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Cadmium	0.45		0.11	0.014	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Calcium	96000		110	29	mg/Kg	☼	05/29/14 09:57	06/03/14 12:23	10
Chromium	7.7		0.54	0.062	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Cobalt	3.7		0.27	0.054	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Copper	13		0.54	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Iron	9700		11	4.4	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Lead	42		0.27	0.080	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Magnesium	49000	B	5.4	1.1	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Manganese	320		0.54	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Nickel	8.7		0.54	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Potassium	950		27	1.6	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Sodium	1200		54	7.2	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Thallium	0.61		0.54	0.23	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Vanadium	13		0.27	0.040	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1
Zinc	41		1.1	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 19:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 20:00	1
Manganese	0.088		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

Client Sample ID: 2819-43-B01

Lab Sample ID: 500-77374-7

Date Collected: 05/20/14 08:55

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 06:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 06:22	1
Boron	1.1	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 06:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 06:22	1
Chromium	0.044		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:22	1
Cobalt	0.013	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:22	1
Iron	44		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 06:22	1
Lead	0.18		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 06:22	1
Manganese	0.52		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:22	1
Nickel	0.045		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:22	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 06:22	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:22	1
Zinc	0.38	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 06:22	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		05/29/14 12:00	05/30/14 16:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:37	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		05/30/14 14:45	06/02/14 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
Mercury	0.016	J	0.017	0.0066	mg/Kg	✱	05/23/14 15:00	05/27/14 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.54		0.200	0.200	SU			05/27/14 13:16	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

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.
B	Compound was found in the blank and sample.
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.

Glossary

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



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

1000 block of US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76426 Longitude: -88.47556
(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: FAP 573 (US 30)

Latitude: 41.76426 Longitude: -88.47556

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 2819-43-B02 WAS SAMPLED ADJACENT TO ISGS SITE 2819-43. SEE FIGURE 7 AND TABLE 3r OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77374-2

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: IDOT Bureau of Design and Environment

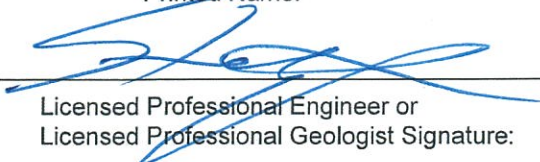
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

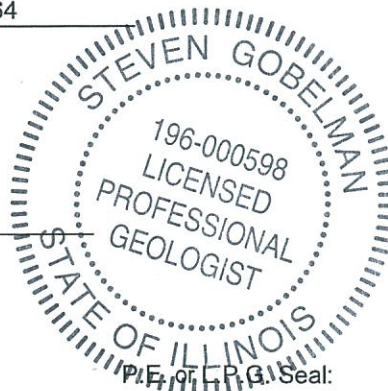
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/11
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-43

Vacant Lot

Sample ID	2819-43-B02	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)	0-3						
Sample Date	5/20/2014						
PID	0						
Sample pH	7.45						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77374-2
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson



Authorized for release by:
6/11/2014 10:06:49 AM

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

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

Client Sample ID: 2819-43-B02

Lab Sample ID: 500-77374-8

Date Collected: 05/20/14 09:10

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Chloroethane	<0.0044	*	0.0044	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	05/21/14 17:20	05/23/14 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	05/21/14 17:20	05/23/14 16:53	1
Dibromofluoromethane	106		75 - 120	05/21/14 17:20	05/23/14 16:53	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	05/21/14 17:20	05/23/14 16:53	1
Toluene-d8 (Surr)	99		75 - 122	05/21/14 17:20	05/23/14 16:53	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	☼	05/31/14 22:14	06/03/14 19:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

Client Sample ID: 2819-43-B02

Lab Sample ID: 500-77374-8

Date Collected: 05/20/14 09:10

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.2

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	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

Client Sample ID: 2819-43-B02

Lab Sample ID: 500-77374-8

Date Collected: 05/20/14 09:10

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.2

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	☼	05/31/14 22:14	06/03/14 19:33	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	05/31/14 22:14	06/03/14 19:33	1
Phenol-d5	58		31 - 110	05/31/14 22:14	06/03/14 19:33	1
Nitrobenzene-d5	46		25 - 115	05/31/14 22:14	06/03/14 19:33	1
2-Fluorobiphenyl	47		25 - 119	05/31/14 22:14	06/03/14 19:33	1
2,4,6-Tribromophenol	61		35 - 137	05/31/14 22:14	06/03/14 19:33	1
Terphenyl-d14	58		36 - 134	05/31/14 22:14	06/03/14 19:33	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	☼	05/29/14 09:57	06/02/14 19:20	1
Arsenic	7.6		0.60	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Barium	98		0.60	0.065	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Beryllium	0.57		0.24	0.048	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Boron	1.9 J		3.0	0.60	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Cadmium	0.27		0.12	0.015	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Calcium	3100		12	3.3	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Chromium	15		0.60	0.070	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Cobalt	6.9		0.30	0.060	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Copper	17		0.60	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Iron	20000		12	5.0	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Lead	15		0.30	0.090	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Magnesium	3500 B		6.0	1.2	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Manganese	520		0.60	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Nickel	18		0.60	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Potassium	920		30	1.8	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Selenium	1.0		0.60	0.21	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Sodium	2300		60	8.1	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Thallium	1.2		0.60	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Vanadium	24		0.30	0.045	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1
Zinc	43		1.2	0.24	mg/Kg	☼	05/29/14 09:57	06/02/14 19:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 20:05	1
Manganese	0.27		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

Client Sample ID: 2819-43-B02

Lab Sample ID: 500-77374-8

Date Collected: 05/20/14 09:10

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		05/29/14 12:00	05/31/14 06:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 06:32	1
Boron	1.1	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 06:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 06:32	1
Chromium	0.077		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:32	1
Cobalt	0.014	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:32	1
Iron	78		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 06:32	1
Lead	0.032		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 06:32	1
Manganese	0.62		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:32	1
Nickel	0.072		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:32	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 06:32	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:32	1
Zinc	0.22	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 06:32	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		05/29/14 12:00	05/30/14 16:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022	B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 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
Mercury	0.033		0.020	0.0080	mg/Kg	✱	05/23/14 15:00	05/27/14 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.45		0.200	0.200	SU			05/27/14 13:18	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-2

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.
B	Compound was found in the blank and sample.
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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 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: US30 Sugar Grove Lane Co
Project No.: IDOT 2013-074
TAT: 5 BD 10 BD 5 BD 2 BD Other

COC No.: 1 of 1
Lab Job No.: 500-77374
Sample Temp:

Sampler: CF/cm

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

Comments:
 0-3
 ↓

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization
7	2819-43-B01	5/20	8:55	S	X	X					X	X	X	X	
8	2819-43-B02	↓	9:10	S	X	X					X	X	X	X	
	2819-43-B03		9:15	S	X	X					X	X	X	X	

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.

Relinquished by: [Signature] Date/Time: 5/20/14 4:00
Received by: [Signature] Date/Time: 5/21/14 TA

Relinquished by: [Signature] Date/Time: 5/21/14
Received by: [Signature] Date/Time: 5/21/14 TA

Relinquished by: [Signature] Date/Time: 5/21/14
Received by: [Signature] Date/Time: 5/21/14 TA



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

43W776 US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76504 Longitude: -88.46743
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL numbers: 0890850002, 0890855006, 0890855012, 0890855015, 0890855016, 5030, 5043, 5057, and 5060

IEPA Site Number(s), if assigned: BOL: 0890855019 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Project Name: FAP 573 (US 30)Latitude: 41.76504 Longitude: -88.46743Uncontaminated 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 2819-42-B18, 2819-43-B03, 2819-44-B02 THROUGH -B05, 2819-45-B01, 2819-47-B01, -B02, -B03, -B04, -B05, AND -B07 WERE SAMPLED ADJACENT TO ISGS SITE 2819-44. SEE FIGURES 7 THROUGH 10, AND TABLE 3s OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-77465-3, 500-77465-4, 500-77465-5, 500-77465-6, AND 500-77374-4

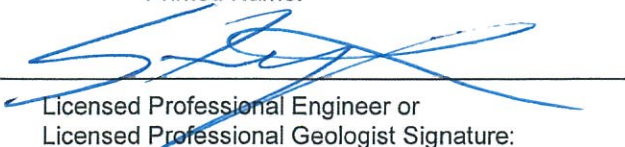
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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))

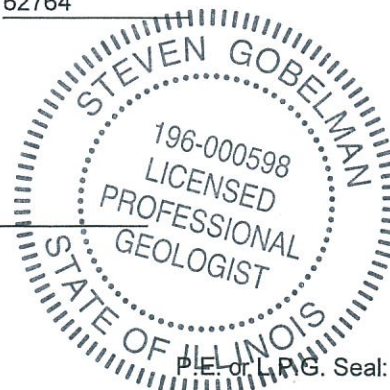
Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/11

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

**ISGS Site 2819-44
Aurora Airport**

Sample ID	2819-42-B18	2819-43-B03	2819-44-B02	2819-44-B03	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-3	0-6	0-6						
Sample Date	5/21/2014	5/21/2014	5/21/2014	5/21/2014						
PID	0	0	0	0						
Sample pH	7.35	7.79	7.42	7.3						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

Sample ID	2819-44-B04	2819-44-B05	2819-45-B01	2819-47-B01	2819-47-B02	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)	0-6	0-6	0-3	0-2	0-2						
Sample Date	5/21/2014	5/21/2014	5/21/2014	5/20/2014	5/20/2014						
PID	0	0	0	0	0						
Sample pH	7.58	7.77	7.51	8.49	8.28						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

Sample ID	2819-47-B03	2819-47-B04	2819-47-B05	2819-47-B07	2819-47-B07 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)	0-2	0-2	0-2	0-2	0-2						
Sample Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014						
PID	0	0	0	0	0						
Sample pH	8.81	8.86	8.51	8.53	8.35						
Matrix	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.											

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77465-3
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 9:08:10 AM

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

LINKS

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www.testamericainc.com

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

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

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

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B18

Lab Sample ID: 500-77465-23

Date Collected: 05/21/14 10:05

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	05/22/14 17:45	05/30/14 08:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	05/22/14 17:45	05/30/14 08:44	1
Dibromofluoromethane	108		75 - 120	05/22/14 17:45	05/30/14 08:44	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/22/14 17:45	05/30/14 08:44	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 08:44	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	☼	06/03/14 07:16	06/05/14 02:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B18

Lab Sample ID: 500-77465-23

Date Collected: 05/21/14 10:05

Matrix: Solid

Date Received: 05/22/14 12:10

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	☼	06/03/14 07:16	06/05/14 02:38	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B18

Lab Sample ID: 500-77465-23

Date Collected: 05/21/14 10:05

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.8

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	☼	06/03/14 07:16	06/05/14 02:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	06/03/14 07:16	06/05/14 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110	06/03/14 07:16	06/05/14 02:38	1
Phenol-d5	41		31 - 110	06/03/14 07:16	06/05/14 02:38	1
Nitrobenzene-d5	45		25 - 115	06/03/14 07:16	06/05/14 02:38	1
2-Fluorobiphenyl	47		25 - 119	06/03/14 07:16	06/05/14 02:38	1
2,4,6-Tribromophenol	39		35 - 137	06/03/14 07:16	06/05/14 02:38	1
Terphenyl-d14	81		36 - 134	06/03/14 07:16	06/05/14 02:38	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	☼	06/04/14 16:00	06/05/14 15:35	1
Arsenic	8.4		0.62	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Barium	110		0.62	0.067	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Beryllium	0.62		0.25	0.050	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Boron	4.2		3.1	0.62	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Cadmium	0.19		0.12	0.016	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Calcium	4600		12	3.4	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Chromium	19		0.62	0.072	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Cobalt	7.9		0.31	0.062	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Copper	18		0.62	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Iron	21000		12	5.1	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Lead	13		0.31	0.093	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Magnesium	4700		6.2	1.3	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Manganese	470		0.62	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Nickel	19		0.62	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Potassium	1200		31	1.9	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Selenium	0.43 J		0.62	0.22	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Sodium	1000		62	8.4	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Thallium	1.3		0.62	0.26	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Vanadium	33		0.31	0.046	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1
Zinc	48		1.2	0.25	mg/Kg	☼	06/04/14 16:00	06/05/14 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16 J		0.50	0.050	mg/L		06/06/14 09:50	06/06/14 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 20:27	1
Boron	1.1		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 20:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Client Sample ID: 2819-42-B18

Lab Sample ID: 500-77465-23

Date Collected: 05/21/14 10:05

Matrix: Solid

Date Received: 05/22/14 12:10

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		06/06/14 09:50	06/06/14 20:27	1
Chromium	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:27	1
Cobalt	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:27	1
Iron	2.8		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 20:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 20:27	1
Manganese	0.022	J	0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:27	1
Nickel	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:27	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 20:27	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:27	1
Zinc	0.045	J	0.10	0.020	mg/L		06/06/14 09:50	06/06/14 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/06/14 09:50	06/06/14 17:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 17:57	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		06/06/14 12:30	06/09/14 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.020	0.0077	mg/Kg	☆	05/28/14 14:30	05/29/14 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.35		0.200	0.200	SU			05/28/14 15:49	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-3

Qualifiers

GC/MS 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.

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

Metals

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

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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: US 30 Super Grose, Kansas Co Project No.: IDOT 2013-074 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	COC No.: 1 of 1 Lab Job No.: 500-77465 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.

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
17	2819-42-B01	5/21	11:40	S	X	X					X	X	X	X		
18	" - " - B02		11:30	S	X	X					X	X	X	X		
19	" - " - B03		11:25	S	X	X					X	X	X	X		
20	" - " - B04		11:00	S	X	X					X	X	X	X		
21	" - " - B05		10:45	S	X	X					X	X	X	X		
22	" - " - B17		10:20	S	X	X					X	X	X	X		
23	" - " - B18		10:05	S	X	X					X	X	X	X		

Relinquished by: [Signature]	Date/Time: 5/21/14	Received by: [Signature]	Date/Time: 5/21/14 5:21
Relinquished by: [Signature]	Date/Time: 5:00 AM	Received by: [Signature]	Date/Time: 5/22/14 09:25
Relinquished by: [Signature]	Date/Time: 5/22/14 12:14	Received by: [Signature]	Date/Time: 5/22/14 12:10

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: 500-77465-4
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 9:08:40 AM

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

LINKS

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-4

Client Sample ID: 2819-43-B03

Lab Sample ID: 500-77465-24

Date Collected: 05/21/14 10:35

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Chloroethane	<0.0044	*	0.0044	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	05/22/14 17:45	05/30/14 09:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/22/14 17:45	05/30/14 09:08	1
Dibromofluoromethane	109		75 - 120	05/22/14 17:45	05/30/14 09:08	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/22/14 17:45	05/30/14 09:08	1
Toluene-d8 (Surr)	101		75 - 122	05/22/14 17:45	05/30/14 09:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-4

Client Sample ID: 2819-43-B03

Lab Sample ID: 500-77465-24

Date Collected: 05/21/14 10:35

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 86.0

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	☼	06/03/14 07:16	06/05/14 02:57	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Phenanthrene	0.0086	J	0.038	0.0054	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Fluoranthene	0.016	J	0.038	0.0072	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Pyrene	0.015	J	0.038	0.0077	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Benzo[a]anthracene	0.0076	J	0.038	0.0052	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-4

Client Sample ID: 2819-43-B03

Lab Sample ID: 500-77465-24

Date Collected: 05/21/14 10:35

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.038	0.011	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Benzo[a]pyrene	0.0078	J	0.038	0.0075	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	06/03/14 07:16	06/05/14 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	06/03/14 07:16	06/05/14 02:57	1
Phenol-d5	53		31 - 110	06/03/14 07:16	06/05/14 02:57	1
Nitrobenzene-d5	47		25 - 115	06/03/14 07:16	06/05/14 02:57	1
2-Fluorobiphenyl	53		25 - 119	06/03/14 07:16	06/05/14 02:57	1
2,4,6-Tribromophenol	56		35 - 137	06/03/14 07:16	06/05/14 02:57	1
Terphenyl-d14	66		36 - 134	06/03/14 07:16	06/05/14 02:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Arsenic	6.7		0.53	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Barium	42		0.53	0.057	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Beryllium	0.39		0.21	0.043	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Boron	4.7		2.7	0.53	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Cadmium	0.17		0.11	0.014	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Calcium	14000		11	2.9	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Chromium	11		0.53	0.062	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Cobalt	5.2		0.27	0.053	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Copper	15		0.53	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Iron	14000		11	4.4	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Lead	10		0.27	0.079	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Magnesium	9600		5.3	1.1	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Manganese	390		0.53	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Nickel	15		0.53	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Potassium	1200		27	1.6	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Selenium	0.33	J	0.53	0.19	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Sodium	910		53	7.1	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Thallium	1.0		0.53	0.22	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Vanadium	21		0.27	0.039	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1
Zinc	38		1.1	0.21	mg/Kg	☼	06/04/14 16:00	06/05/14 15:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 21:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-4

Client Sample ID: 2819-43-B03

Lab Sample ID: 500-77465-24

Date Collected: 05/21/14 10:35

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.11	J	0.50	0.050	mg/L		06/06/14 09:50	06/06/14 20:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 20:33	1
Boron	0.89		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 20:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/06/14 09:50	06/06/14 20:33	1
Chromium	0.011	J	0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:33	1
Cobalt	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:33	1
Iron	5.5		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 20:33	1
Lead	0.0087		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 20:33	1
Manganese	0.056		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:33	1
Nickel	0.013	J	0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:33	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 20:33	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:33	1
Zinc	0.060	J	0.10	0.020	mg/L		06/06/14 09:50	06/06/14 20:33	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		06/06/14 09:50	06/06/14 18:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/06/14 12:30	06/09/14 11:12	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	0.015	J	0.017	0.0065	mg/Kg	✱	05/28/14 14:30	05/29/14 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			05/28/14 15:51	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-4

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.

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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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>Sugar Grove, Kane Co</u> Project No.: <u>IDOT 2013-074</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>CP/Kan</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-77465</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.		Matrix Key: W: Water S: Soil SL: Sludge L: Sediment DW: Drinking Water OL: Oil O: Other																	
ANALYSES		Comments																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization				
24	2819-93-1323	5/21	10:35	S	X	X					X	X	X	X					
Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
<i>[Signature]</i>		5/21/14 4:00		5/21/14 4:00		5/21/14 4:00		5/21/14 4:00		5/21/14 4:00		5/21/14 4:00		5/21/14 4:00		5/21/14 4:00		5/21/14 4:00	
Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
<i>[Signature]</i>		5/21/14 5:13		5/21/14 5:13		5/21/14 5:13		5/21/14 5:13		5/21/14 5:13		5/21/14 5:13		5/21/14 5:13		5/21/14 5:13		5/21/14 5:13	
Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
<i>[Signature]</i>		5/22/14 12:18		5/22/14 12:18		5/22/14 12:18		5/22/14 12:18		5/22/14 12:18		5/22/14 12:18		5/22/14 12:18		5/22/14 12:18		5/22/14 12:18	

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: 500-77465-5
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 9:09:33 AM

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

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B02

Lab Sample ID: 500-77465-27

Date Collected: 05/21/14 09:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.6

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	☼	05/22/14 17:45	05/30/14 13:34	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/22/14 17:45	05/30/14 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/22/14 17:45	05/30/14 13:34	1
Dibromofluoromethane	109		75 - 120	05/22/14 17:45	05/30/14 13:34	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	05/22/14 17:45	05/30/14 13:34	1
Toluene-d8 (Surr)	101		75 - 122	05/22/14 17:45	05/30/14 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B02

Lab Sample ID: 500-77465-27

Date Collected: 05/21/14 09:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.6

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	0.048	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
4,6-Dinitro-2-methylphenol	<0.40	*	0.40	0.32	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B02

Lab Sample ID: 500-77465-27

Date Collected: 05/21/14 09:15

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 80.6

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	☼	06/03/14 19:27	06/05/14 11:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
Benzo[g,h,i]perylene	<0.040	*	0.040	0.013	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	06/03/14 19:27	06/05/14 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		25 - 110	06/03/14 19:27	06/05/14 11:53	1
Phenol-d5	63		31 - 110	06/03/14 19:27	06/05/14 11:53	1
Nitrobenzene-d5	60		25 - 115	06/03/14 19:27	06/05/14 11:53	1
2-Fluorobiphenyl	60		25 - 119	06/03/14 19:27	06/05/14 11:53	1
2,4,6-Tribromophenol	52		35 - 137	06/03/14 19:27	06/05/14 11:53	1
Terphenyl-d14	80		36 - 134	06/03/14 19:27	06/05/14 11:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Arsenic	8.2		0.61	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Barium	130		0.61	0.065	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Beryllium	0.59		0.24	0.049	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Boron	6.0		3.0	0.61	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Cadmium	0.29		0.12	0.015	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Calcium	23000		12	3.3	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Chromium	17		0.61	0.071	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Cobalt	7.1		0.30	0.061	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Copper	17		0.61	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Iron	18000		12	5.0	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Lead	9.9		0.30	0.091	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Magnesium	14000		6.1	1.3	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Manganese	510		0.61	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Nickel	20		0.61	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Potassium	1300		30	1.8	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Sodium	1300		61	8.2	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Thallium	1.3		0.61	0.26	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Vanadium	32		0.30	0.045	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1
Zinc	42		1.2	0.25	mg/Kg	☼	06/04/14 16:00	06/05/14 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.086	J	0.50	0.050	mg/L		06/06/14 09:50	06/06/14 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 20:52	1
Boron	0.98		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B02

Lab Sample ID: 500-77465-27

Date Collected: 05/21/14 09:15

Matrix: Solid

Date Received: 05/22/14 12:10

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		06/06/14 09:50	06/06/14 20:52	1
Chromium	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:52	1
Cobalt	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:52	1
Iron	1.5		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 20:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 20:52	1
Manganese	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:52	1
Nickel	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:52	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 20:52	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:52	1
Zinc	0.032	J	0.10	0.020	mg/L		06/06/14 09:50	06/06/14 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/06/14 09:50	06/06/14 18:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 18:22	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		06/06/14 12:30	06/09/14 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0074	mg/Kg	☆	05/28/14 14:30	05/29/14 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.42		0.200	0.200	SU			05/28/14 15:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B03

Lab Sample ID: 500-77465-28

Date Collected: 05/21/14 08:55

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.027		0.0047	0.0020	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
2-Butanone (MEK)	0.0059		0.0047	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	05/22/14 17:45	05/30/14 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/22/14 17:45	05/30/14 13:58	1
Dibromofluoromethane	107		75 - 120	05/22/14 17:45	05/30/14 13:58	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/22/14 17:45	05/30/14 13:58	1
Toluene-d8 (Surr)	102		75 - 122	05/22/14 17:45	05/30/14 13:58	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	☼	06/03/14 19:27	06/04/14 13:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B03

Lab Sample ID: 500-77465-28

Date Collected: 05/21/14 08:55

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 79.2

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	☼	06/03/14 19:27	06/04/14 13:31	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2,4-Dinitrophenol	<0.82	*	0.82	0.71	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
4,6-Dinitro-2-methylphenol	<0.40	*	0.40	0.33	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B03

Lab Sample ID: 500-77465-28

Date Collected: 05/21/14 08:55

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 79.2

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	☼	06/03/14 19:27	06/04/14 13:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
Benzo[g,h,i]perylene	<0.040	*	0.040	0.013	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	06/03/14 19:27	06/04/14 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	06/03/14 19:27	06/04/14 13:31	1
Phenol-d5	33		31 - 110	06/03/14 19:27	06/04/14 13:31	1
Nitrobenzene-d5	46		25 - 115	06/03/14 19:27	06/04/14 13:31	1
2-Fluorobiphenyl	50		25 - 119	06/03/14 19:27	06/04/14 13:31	1
2,4,6-Tribromophenol	56		35 - 137	06/03/14 19:27	06/04/14 13:31	1
Terphenyl-d14	71		36 - 134	06/03/14 19:27	06/04/14 13:31	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	☼	06/04/14 16:00	06/05/14 16:20	1
Arsenic	4.9		0.62	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Barium	95		0.62	0.067	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Beryllium	0.51		0.25	0.050	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Boron	3.6		3.1	0.62	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Cadmium	0.28		0.12	0.016	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Calcium	3700		12	3.4	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Chromium	16		0.62	0.072	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Cobalt	6.5		0.31	0.062	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Copper	12		0.62	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Iron	14000		12	5.1	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Lead	9.5		0.31	0.093	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Magnesium	3800		6.2	1.3	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Manganese	400		0.62	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Nickel	18		0.62	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Potassium	960		31	1.9	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Selenium	0.43	J	0.62	0.22	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Sodium	1100		62	8.4	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Thallium	1.1		0.62	0.26	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Vanadium	23		0.31	0.046	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1
Zinc	46		1.2	0.25	mg/Kg	☼	06/04/14 16:00	06/05/14 16:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.26		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 21:32	1
Lead	0.0085		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 21:32	1
Manganese	6.8		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 21:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B03

Lab Sample ID: 500-77465-28

Date Collected: 05/21/14 08:55

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		06/06/14 09:50	06/06/14 20:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 20:58	1
Boron	0.95		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 20:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/06/14 09:50	06/06/14 20:58	1
Chromium	0.076		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:58	1
Cobalt	0.016	J	0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:58	1
Iron	75		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 20:58	1
Lead	0.026		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 20:58	1
Manganese	0.86		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:58	1
Nickel	0.073		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:58	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 20:58	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 20:58	1
Zinc	0.20		0.10	0.020	mg/L		06/06/14 09:50	06/06/14 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/06/14 09:50	06/06/14 18:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.00010	mg/L		06/06/14 12:30	06/09/14 11:26	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	0.037		0.020	0.0077	mg/Kg	✱	05/28/14 14:30	05/29/14 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.30		0.200	0.200	SU			05/28/14 15:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B04

Lab Sample ID: 500-77465-29

Date Collected: 05/21/14 08:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026		0.0057	0.0025	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Benzene	<0.0057		0.0057	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Bromodichloromethane	<0.0057		0.0057	0.00098	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Bromomethane	<0.0057		0.0057	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
2-Butanone (MEK)	0.0068		0.0057	0.0021	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Carbon disulfide	<0.0057		0.0057	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Chlorobenzene	<0.0057		0.0057	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Chloroethane	<0.0057		0.0057	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Chloroform	<0.0057		0.0057	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Dibromochloromethane	<0.0057		0.0057	0.00099	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
1,1-Dichloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
1,1,1-Dichloroethane	<0.0057		0.0057	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
1,2-Dichloropropane	<0.0057		0.0057	0.00086	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Ethylbenzene	<0.0057		0.0057	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
2-Hexanone	<0.0057		0.0057	0.0016	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Methylene Chloride	<0.0057		0.0057	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Styrene	<0.0057		0.0057	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
1,1,1,2-Tetrachloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Tetrachloroethene	<0.0057		0.0057	0.00087	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Toluene	<0.0057		0.0057	0.00080	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Trichloroethene	<0.0057		0.0057	0.00094	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Vinyl acetate	<0.0057		0.0057	0.00090	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1
Xylenes, Total	<0.011		0.011	0.00052	mg/Kg	☼	05/22/14 17:45	05/30/14 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	05/22/14 17:45	05/30/14 14:22	1
Dibromofluoromethane	107		75 - 120	05/22/14 17:45	05/30/14 14:22	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/22/14 17:45	05/30/14 14:22	1
Toluene-d8 (Surr)	99		75 - 122	05/22/14 17:45	05/30/14 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.23		0.23	0.099	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Bis(2-chloroethyl)ether	<0.23		0.23	0.067	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
1,3-Dichlorobenzene	<0.23		0.23	0.050	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
1,4-Dichlorobenzene	<0.23		0.23	0.057	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B04

Lab Sample ID: 500-77465-29

Date Collected: 05/21/14 08:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.23		0.23	0.053	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2-Methylphenol	<0.23		0.23	0.072	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2,2'-oxybis[1-chloropropane]	<0.23		0.23	0.052	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
N-Nitrosodi-n-propylamine	<0.23		0.23	0.055	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Hexachloroethane	<0.23		0.23	0.068	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2-Chlorophenol	<0.23		0.23	0.076	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Bis(2-chloroethoxy)methane	<0.23		0.23	0.046	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
1,2,4-Trichlorobenzene	<0.23		0.23	0.048	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Isophorone	<0.23		0.23	0.050	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Hexachlorobutadiene	<0.23		0.23	0.070	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Naphthalene	<0.044		0.044	0.0069	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2,4-Dichlorophenol	<0.44		0.44	0.11	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
4-Chloroaniline	<0.90		0.90	0.21	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Hexachlorocyclopentadiene	<0.90		0.90	0.26	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2-Methylnaphthalene	<0.044		0.044	0.0082	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2-Nitroaniline	<0.23		0.23	0.060	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2-Chloronaphthalene	<0.23		0.23	0.049	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2,6-Dinitrotoluene	<0.23		0.23	0.088	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2-Nitrophenol	<0.44		0.44	0.11	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Dimethyl phthalate	<0.23		0.23	0.058	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2,4-Dinitrophenol	<0.90 *		0.90	0.79	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Acenaphthylene	<0.044		0.044	0.0059	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
2,4-Dinitrotoluene	<0.23		0.23	0.071	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Acenaphthene	<0.044		0.044	0.0080	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Dibenzofuran	<0.23		0.23	0.052	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
4-Nitrophenol	<0.90		0.90	0.43	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Fluorene	<0.044		0.044	0.0063	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
4-Nitroaniline	<0.44		0.44	0.19	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
4-Bromophenyl phenyl ether	<0.23		0.23	0.059	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Hexachlorobenzene	<0.090		0.090	0.010	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Diethyl phthalate	<0.23		0.23	0.076	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
4-Chlorophenyl phenyl ether	<0.23		0.23	0.052	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Pentachlorophenol	<0.90		0.90	0.72	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
N-Nitrosodiphenylamine	<0.23		0.23	0.053	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
4,6-Dinitro-2-methylphenol	<0.44 *		0.44	0.36	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Phenanthrene	0.010	J	0.044	0.0062	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Anthracene	<0.044		0.044	0.0075	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Carbazole	<0.23		0.23	0.12	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Di-n-butyl phthalate	<0.23		0.23	0.068	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Fluoranthene	0.015	J	0.044	0.0083	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Pyrene	0.014	J	0.044	0.0089	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Butyl benzyl phthalate	<0.23		0.23	0.085	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Benzo[a]anthracene	<0.044		0.044	0.0060	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B04

Lab Sample ID: 500-77465-29

Date Collected: 05/21/14 08:40

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 73.9

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	☼	06/03/14 19:27	06/05/14 12:14	1
3,3'-Dichlorobenzidine	<0.23		0.23	0.063	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Bis(2-ethylhexyl) phthalate	<0.23		0.23	0.082	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Di-n-octyl phthalate	<0.23		0.23	0.073	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Benzo[b]fluoranthene	0.012	J	0.044	0.0097	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Benzo[k]fluoranthene	<0.044		0.044	0.013	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Benzo[a]pyrene	<0.044		0.044	0.0087	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Indeno[1,2,3-cd]pyrene	<0.044		0.044	0.012	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Dibenz(a,h)anthracene	<0.044		0.044	0.0087	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Benzo[g,h,i]perylene	<0.044	*	0.044	0.014	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
3 & 4 Methylphenol	<0.23		0.23	0.075	mg/Kg	☼	06/03/14 19:27	06/05/14 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2-Fluorophenol</i>	63		25 - 110				06/03/14 19:27	06/05/14 12:14	1
<i>Phenol-d5</i>	69		31 - 110				06/03/14 19:27	06/05/14 12:14	1
<i>Nitrobenzene-d5</i>	54		25 - 115				06/03/14 19:27	06/05/14 12:14	1
<i>2-Fluorobiphenyl</i>	54		25 - 119				06/03/14 19:27	06/05/14 12:14	1
<i>2,4,6-Tribromophenol</i>	60		35 - 137				06/03/14 19:27	06/05/14 12:14	1
<i>Terphenyl-d14</i>	79		36 - 134				06/03/14 19:27	06/05/14 12:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.53	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Arsenic	5.4		0.66	0.13	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Barium	78		0.66	0.070	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Beryllium	0.57		0.26	0.053	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Boron	3.8		3.3	0.66	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Cadmium	0.36		0.13	0.017	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Calcium	12000		13	3.6	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Chromium	16		0.66	0.076	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Cobalt	6.0		0.33	0.066	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Copper	15		0.66	0.13	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Iron	21000		13	5.4	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Lead	13		0.33	0.098	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Magnesium	6300		6.6	1.4	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Manganese	160		0.66	0.13	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Nickel	16		0.66	0.13	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Potassium	1100		33	2.0	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Selenium	0.78		0.66	0.23	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Silver	<0.33		0.33	0.024	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Sodium	1800		66	8.8	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Thallium	0.76		0.66	0.28	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Vanadium	32		0.33	0.049	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1
Zinc	56		1.3	0.27	mg/Kg	☼	06/04/14 16:00	06/05/14 16:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/13/14 08:30	06/13/14 21:45	1
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 21:45	1
Iron	0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 21:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B04

Lab Sample ID: 500-77465-29

Date Collected: 05/21/14 08:40

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 21:45	1
Manganese	1.7		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		06/06/14 09:50	06/06/14 21:19	1
Beryllium	0.0041		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 21:19	1
Boron	1.0		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 21:19	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		06/06/14 09:50	06/06/14 21:19	1
Chromium	0.12		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:19	1
Cobalt	0.030		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:19	1
Iron	130		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 21:19	1
Lead	0.075		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 21:19	1
Manganese	0.52		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:19	1
Nickel	0.076		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:19	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 21:19	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:19	1
Zinc	0.34		0.10	0.020	mg/L		06/06/14 09:50	06/06/14 21:19	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		06/06/14 09:50	06/06/14 18:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020	0.00010	mg/L		06/06/14 12:30	06/09/14 11:28	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	0.047		0.021	0.0084	mg/Kg	☼	05/28/14 14:30	05/29/14 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU			05/28/14 15:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B05

Lab Sample ID: 500-77465-30

Date Collected: 05/21/14 08:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0047	0.0020	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
2-Butanone (MEK)	0.0039 J		0.0047	0.0017	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Chloromethane	<0.0047		0.0047	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00077	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Vinyl chloride	<0.0047		0.0047	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	05/22/14 17:45	05/30/14 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/22/14 17:45	05/30/14 14:46	1
Dibromofluoromethane	109		75 - 120	05/22/14 17:45	05/30/14 14:46	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	05/22/14 17:45	05/30/14 14:46	1
Toluene-d8 (Surr)	100		75 - 122	05/22/14 17:45	05/30/14 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.094	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B05

Lab Sample ID: 500-77465-30

Date Collected: 05/21/14 08:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.7

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	0.050	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2-Methylnaphthalene	<0.042		0.042	0.0078	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2,4-Dinitrophenol	<0.85 *		0.85	0.74	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
4,6-Dinitro-2-methylphenol	<0.42 *		0.42	0.34	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B05

Lab Sample ID: 500-77465-30

Date Collected: 05/21/14 08:30

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Benzo[g,h,i]perylene	<0.042 *		0.042	0.014	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	06/03/14 19:27	06/04/14 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110				06/03/14 19:27	06/04/14 14:15	1
Phenol-d5	47		31 - 110				06/03/14 19:27	06/04/14 14:15	1
Nitrobenzene-d5	48		25 - 115				06/03/14 19:27	06/04/14 14:15	1
2-Fluorobiphenyl	52		25 - 119				06/03/14 19:27	06/04/14 14:15	1
2,4,6-Tribromophenol	42		35 - 137				06/03/14 19:27	06/04/14 14:15	1
Terphenyl-d14	90		36 - 134				06/03/14 19:27	06/04/14 14:15	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	☼	06/04/14 16:00	06/05/14 16:33	1
Arsenic	9.4		0.58	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Barium	190		0.58	0.062	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Beryllium	0.69		0.23	0.047	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Boron	3.3		2.9	0.58	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Cadmium	0.19		0.12	0.015	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Calcium	7400		12	3.2	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Chromium	18		0.58	0.068	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Cobalt	8.5		0.29	0.058	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Copper	20		0.58	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Iron	20000		12	4.8	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Lead	12		0.29	0.087	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Magnesium	6300		5.8	1.2	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Manganese	580		0.58	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Nickel	19		0.58	0.12	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Potassium	1100		29	1.8	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Selenium	0.59		0.58	0.21	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Sodium	1400		58	7.8	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Thallium	1.4		0.58	0.25	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Vanadium	36		0.29	0.043	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1
Zinc	44		1.2	0.24	mg/Kg	☼	06/04/14 16:00	06/05/14 16:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 21:50	1
Iron	0.26		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 21:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 21:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

Client Sample ID: 2819-44-B05

Lab Sample ID: 500-77465-30

Date Collected: 05/21/14 08:30

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		06/13/14 08:30	06/13/14 21:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		06/06/14 09:50	06/06/14 21:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 21:25	1
Boron	0.96		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 21:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/06/14 09:50	06/06/14 21:25	1
Chromium	0.12		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:25	1
Cobalt	0.016	J	0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:25	1
Iron	90		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 21:25	1
Lead	0.032		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 21:25	1
Manganese	0.48		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:25	1
Nickel	0.082		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:25	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 21:25	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:25	1
Zinc	0.29		0.10	0.020	mg/L		06/06/14 09:50	06/06/14 21:25	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		06/06/14 09:50	06/06/14 18:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.00010	mg/L		06/06/14 12:30	06/09/14 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0074	mg/Kg	☼	05/28/14 14:30	05/29/14 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			05/28/14 15:59	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-5

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
X	Surrogate is outside control limits
*	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.

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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory 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: US 30 Superfund Remed Co Project No.: IDOT 2013-074 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: CF/Can	COC No.: 1 of 1 Lab Job No.: 500-77465 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.

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		
25	2819-44-B01	5/27	9:30	S	X	X					X	X	X	X				
26	2819-44-B01 DUP		9:35	S	X	X					X	X	X	X				
27	2819-44-B02		9:15	S	X	X					X	X	X	X				
28	2819-44-B03		8:55	S	X	X					X	X	X	X				
29	2819-44-B04		8:10	S	X	X					X	X	X	X				
30	2819-44-B05		8:30	S	X	X					X	X	X	X				
Relinquished by:					Date/Time	5/21/14 4:50	Received by: [Signature]										Date/Time	5/21/14 5:21
Relinquished by:					Date/Time	5/21/14 5:22	Received by: [Signature]										Date/Time	5/22/14 09:25
Relinquished by:					Date/Time	5/22/14 12:10	Received by: [Signature]										Date/Time	5/22/14 12:10

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: 500-77465-6
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 9:10:01 AM

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Client Sample ID: 2819-45-B01

Lab Sample ID: 500-77465-31

Date Collected: 05/21/14 09:55

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/22/14 17:45	05/30/14 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/22/14 17:45	05/30/14 15:10	1
Dibromofluoromethane	106		75 - 120	05/22/14 17:45	05/30/14 15:10	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/22/14 17:45	05/30/14 15:10	1
Toluene-d8 (Surr)	102		75 - 122	05/22/14 17:45	05/30/14 15:10	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	☼	06/03/14 19:27	06/04/14 14:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Client Sample ID: 2819-45-B01

Lab Sample ID: 500-77465-31

Date Collected: 05/21/14 09:55

Matrix: Solid

Date Received: 05/22/14 12:10

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	<0.20		0.20	0.049	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2,4-Dinitrophenol	<0.82	*	0.82	0.72	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
4,6-Dinitro-2-methylphenol	<0.40	*	0.40	0.33	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Client Sample ID: 2819-45-B01

Lab Sample ID: 500-77465-31

Date Collected: 05/21/14 09:55

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
Benzo[g,h,i]perylene	<0.040	*	0.040	0.013	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	06/03/14 19:27	06/04/14 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110	06/03/14 19:27	06/04/14 14:37	1
Phenol-d5	44		31 - 110	06/03/14 19:27	06/04/14 14:37	1
Nitrobenzene-d5	51		25 - 115	06/03/14 19:27	06/04/14 14:37	1
2-Fluorobiphenyl	49		25 - 119	06/03/14 19:27	06/04/14 14:37	1
2,4,6-Tribromophenol	15	X	35 - 137	06/03/14 19:27	06/04/14 14:37	1
Terphenyl-d14	78		36 - 134	06/03/14 19:27	06/04/14 14:37	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	☼	06/04/14 16:00	06/05/14 16:39	1
Arsenic	3.6		0.56	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Barium	77		0.56	0.060	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Beryllium	0.52		0.23	0.045	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Boron	2.9		2.8	0.56	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Cadmium	0.17		0.11	0.014	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Calcium	4600		11	3.0	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Chromium	17		0.56	0.065	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Cobalt	5.3		0.28	0.056	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Copper	13		0.56	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Iron	15000		11	4.6	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Lead	9.2		0.28	0.084	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Magnesium	4200		5.6	1.2	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Manganese	350		0.56	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Nickel	15		0.56	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Potassium	830		28	1.7	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Selenium	0.44	J	0.56	0.20	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Sodium	1100		56	7.5	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Thallium	0.88		0.56	0.24	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Vanadium	22		0.28	0.042	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1
Zinc	39		1.1	0.23	mg/Kg	☼	06/04/14 16:00	06/05/14 16:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 21:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 21:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Client Sample ID: 2819-45-B01

Lab Sample ID: 500-77465-31

Date Collected: 05/21/14 09:55

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22	J	0.50	0.050	mg/L		06/06/14 09:50	06/06/14 21:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 21:32	1
Boron	1.2		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 21:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/06/14 09:50	06/06/14 21:32	1
Chromium	0.047		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:32	1
Cobalt	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:32	1
Iron	32		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 21:32	1
Lead	0.0098		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 21:32	1
Manganese	0.11		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:32	1
Nickel	0.023	J	0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:32	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 21:32	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:32	1
Zinc	0.12		0.10	0.020	mg/L		06/06/14 09:50	06/06/14 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/06/14 09:50	06/06/14 18:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.00010	mg/L		06/06/14 12:30	06/09/14 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0069	mg/Kg	✱	05/28/14 14:30	05/29/14 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.51		0.200	0.200	SU			05/28/14 16:01	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	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.
*	ISTD response or retention time outside acceptable 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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory 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>US30 Superfund Remed Co</u> Project No.: <u>FDOT 2013-074</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>CP/CA</u>		COC No.: <u> </u> of <u> </u> Lab Job No.: <u>500-77465</u> Sample Temp: <u> </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				Comments																																																					
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTX & MTBF	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization																																												
31	2819-45-B01	5/21	9:55	S	X	X					X	X	X	X																																													
32	2819-45-B02	"	9:45	S	X	X					X	X	X	X																																													
				Relinquished by: <u>[Signature]</u>		Date/Time: <u>5/21/14 4:22</u>		Received by: <u>[Signature]</u>		Date/Time: <u>5/21/14 5:21</u>																																																	
				Relinquished by: <u>[Signature]</u>		Date/Time: <u>5/21/14 5:00 AM</u>		Received by: <u>[Signature]</u>																																																			
				Relinquished by: <u>[Signature]</u>		Date/Time: <u>5/21/14 12:18</u>		Received by: <u>[Signature]</u>																																																			

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: 500-77374-4
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson



Authorized for release by:
6/11/2014 10:18:37 AM

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

LINKS

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www.testamericainc.com

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B01

Lab Sample ID: 500-77374-19

Date Collected: 05/20/14 15:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	05/21/14 17:20	05/24/14 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/21/14 17:20	05/24/14 00:45	1
Dibromofluoromethane	104		75 - 120	05/21/14 17:20	05/24/14 00:45	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	05/21/14 17:20	05/24/14 00:45	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/24/14 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B01

Lab Sample ID: 500-77374-19

Date Collected: 05/20/14 15:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 85.4

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	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Fluoranthene	0.0097	J	0.037	0.0069	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Pyrene	0.0086	J	0.037	0.0074	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B01

Lab Sample ID: 500-77374-19

Date Collected: 05/20/14 15:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 85.4

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	☼	06/01/14 17:20	06/03/14 22:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Benzo[b]fluoranthene	0.011	J	0.037	0.0081	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	06/01/14 17:20	06/03/14 22:57	1
Phenol-d5	63		31 - 110	06/01/14 17:20	06/03/14 22:57	1
Nitrobenzene-d5	52		25 - 115	06/01/14 17:20	06/03/14 22:57	1
2-Fluorobiphenyl	55		25 - 119	06/01/14 17:20	06/03/14 22:57	1
2,4,6-Tribromophenol	70		35 - 137	06/01/14 17:20	06/03/14 22:57	1
Terphenyl-d14	68		36 - 134	06/01/14 17:20	06/03/14 22:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Arsenic	5.2		0.54	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Barium	52		0.54	0.058	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Beryllium	0.31		0.22	0.043	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Boron	5.0		2.7	0.54	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Cadmium	0.37		0.11	0.014	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Calcium	110000		110	29	mg/Kg	☼	05/29/14 09:57	06/03/14 12:51	10
Chromium	8.5		0.54	0.063	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Cobalt	4.2		0.27	0.054	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Copper	12		0.54	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Iron	10000		11	4.4	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Lead	7.7		0.27	0.080	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Magnesium	39000	B	5.4	1.1	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Manganese	410		0.54	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Nickel	11		0.54	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Potassium	880		27	1.6	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Silver	0.029	J B	0.27	0.020	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Sodium	580		54	7.2	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Thallium	0.72		0.54	0.23	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Vanadium	16		0.27	0.040	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1
Zinc	30		1.1	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 20:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B01

Lab Sample ID: 500-77374-19

Date Collected: 05/20/14 15:25

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 08:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 08:15	1
Boron	0.98	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 08:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 08:15	1
Chromium	0.016	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:15	1
Cobalt	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:15	1
Iron	13		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 08:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 08:15	1
Manganese	0.10		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:15	1
Nickel	0.014	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:15	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 08:15	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:15	1
Zinc	0.075	J B	0.10	0.020	mg/L		05/29/14 12:00	06/02/14 19:27	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		05/29/14 12:00	05/30/14 17:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 17:50	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		05/30/14 14:45	06/02/14 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0076	mg/Kg	✱	05/23/14 15:00	05/27/14 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU			05/27/14 13:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B02

Lab Sample ID: 500-77374-20

Date Collected: 05/20/14 15:15

Matrix: Solid

Date Received: 05/21/14 12:20

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	☼	05/21/14 17:20	05/24/14 01:09	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/21/14 17:20	05/24/14 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	05/21/14 17:20	05/24/14 01:09	1
Dibromofluoromethane	108		75 - 120	05/21/14 17:20	05/24/14 01:09	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	05/21/14 17:20	05/24/14 01:09	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/24/14 01:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B02

Lab Sample ID: 500-77374-20

Date Collected: 05/20/14 15:15

Matrix: Solid

Date Received: 05/21/14 12:20

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	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B02

Lab Sample ID: 500-77374-20

Date Collected: 05/20/14 15:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.8

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	☼	06/01/14 17:20	06/03/14 16:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	06/01/14 17:20	06/03/14 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110				06/01/14 17:20	06/03/14 16:47	1
Phenol-d5	54		31 - 110				06/01/14 17:20	06/03/14 16:47	1
Nitrobenzene-d5	45		25 - 115				06/01/14 17:20	06/03/14 16:47	1
2-Fluorobiphenyl	44		25 - 119				06/01/14 17:20	06/03/14 16:47	1
2,4,6-Tribromophenol	49		35 - 137				06/01/14 17:20	06/03/14 16:47	1
Terphenyl-d14	55		36 - 134				06/01/14 17:20	06/03/14 16:47	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	☼	05/29/14 09:57	06/02/14 20:49	1
Arsenic	5.4		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Barium	76		0.62	0.066	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Beryllium	0.40		0.25	0.050	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Boron	5.1		3.1	0.62	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Cadmium	0.45		0.12	0.016	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Calcium	88000		120	34	mg/Kg	☼	05/29/14 09:57	06/03/14 12:55	10
Chromium	12		0.62	0.072	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Cobalt	4.6		0.31	0.062	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Copper	15		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Iron	11000		12	5.1	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Lead	62		0.31	0.092	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Magnesium	42000	B	6.2	1.3	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Manganese	530		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Nickel	9.9		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Potassium	1100		31	1.9	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Selenium	0.42	J	0.62	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Silver	0.048	J B	0.31	0.022	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Sodium	1700		62	8.3	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Thallium	0.90		0.62	0.26	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Vanadium	20		0.31	0.046	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1
Zinc	47		1.2	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 20:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 20:59	1
Manganese	0.28		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B02

Lab Sample ID: 500-77374-20

Date Collected: 05/20/14 15:15

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 08:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 08:21	1
Boron	0.91	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 08:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 08:21	1
Chromium	0.062		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:21	1
Cobalt	0.012	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:21	1
Iron	57		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 08:21	1
Lead	0.13		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 08:21	1
Manganese	0.69		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:21	1
Nickel	0.045		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:21	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 08:21	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:21	1
Zinc	0.27	B	0.10	0.020	mg/L		05/29/14 12:00	06/02/14 19:31	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		05/29/14 12:00	05/30/14 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 12:34	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	0.029		0.018	0.0072	mg/Kg	✱	05/23/14 15:00	05/27/14 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			05/27/14 13:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B03

Lab Sample ID: 500-77374-21

Date Collected: 05/20/14 15:00

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0035		0.0035	0.0015	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Benzene	<0.0035		0.0035	0.00048	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Bromodichloromethane	<0.0035		0.0035	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Bromoform	<0.0035		0.0035	0.00081	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Bromomethane	<0.0035		0.0035	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
2-Butanone (MEK)	<0.0035		0.0035	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Carbon disulfide	<0.0035		0.0035	0.00053	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Carbon tetrachloride	<0.0035		0.0035	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Chlorobenzene	<0.0035		0.0035	0.00036	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Chloroethane	<0.0035		0.0035	0.00096	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Chloroform	<0.0035		0.0035	0.00041	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Chloromethane	<0.0035		0.0035	0.00074	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00050	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00046	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Dibromochloromethane	<0.0035		0.0035	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
1,1-Dichloroethane	<0.0035		0.0035	0.00056	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
1,2-Dichloroethane	<0.0035		0.0035	0.00052	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
1,1-Dichloroethene	<0.0035		0.0035	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
1,2-Dichloropropane	<0.0035		0.0035	0.00054	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
1,3-Dichloropropene, Total	<0.0035		0.0035	0.00046	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Ethylbenzene	<0.0035		0.0035	0.00071	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
2-Hexanone	<0.0035		0.0035	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Methylene Chloride	<0.0035		0.0035	0.00095	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00092	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Styrene	<0.0035		0.0035	0.00046	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
1,1,2,2-Tetrachloroethane	<0.0035		0.0035	0.00071	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Tetrachloroethene	<0.0035		0.0035	0.00054	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Toluene	<0.0035		0.0035	0.00049	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00048	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00053	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00048	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Trichloroethene	<0.0035		0.0035	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Vinyl acetate	<0.0035		0.0035	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Vinyl chloride	<0.0035		0.0035	0.00074	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1
Xylenes, Total	<0.0070		0.0070	0.00032	mg/Kg	☼	05/21/14 17:20	05/24/14 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	05/21/14 17:20	05/24/14 01:34	1
Dibromofluoromethane	104		75 - 120	05/21/14 17:20	05/24/14 01:34	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	05/21/14 17:20	05/24/14 01:34	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/24/14 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B03

Lab Sample ID: 500-77374-21

Date Collected: 05/20/14 15:00

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 90.5

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	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B03

Lab Sample ID: 500-77374-21

Date Collected: 05/20/14 15:00

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	06/01/14 17:20	06/03/14 17:08	1
Phenol-d5	68		31 - 110	06/01/14 17:20	06/03/14 17:08	1
Nitrobenzene-d5	58		25 - 115	06/01/14 17:20	06/03/14 17:08	1
2-Fluorobiphenyl	58		25 - 119	06/01/14 17:20	06/03/14 17:08	1
2,4,6-Tribromophenol	74		35 - 137	06/01/14 17:20	06/03/14 17:08	1
Terphenyl-d14	66		36 - 134	06/01/14 17:20	06/03/14 17:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Arsenic	3.8		0.54	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Barium	21		0.54	0.057	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Beryllium	0.20	J	0.21	0.043	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Boron	4.6		2.7	0.54	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Calcium	87000	B	110	29	mg/Kg	☼	05/29/14 11:20	06/02/14 21:38	10
Chromium	5.9		0.54	0.062	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Cobalt	3.5		0.27	0.054	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Copper	10		0.54	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Iron	8200		11	4.4	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Lead	4.0	B	0.27	0.080	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Magnesium	41000		5.4	1.1	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Manganese	260	B	0.54	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Nickel	7.8		0.54	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Potassium	740		27	1.6	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Sodium	380		54	7.2	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Thallium	0.54		0.54	0.23	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Vanadium	9.7		0.27	0.040	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1
Zinc	23		1.1	0.22	mg/Kg	☼	05/29/14 11:20	05/30/14 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.059	J	0.50	0.050	mg/L		05/30/14 08:45	05/30/14 19:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/14 08:45	05/30/14 19:21	1
Boron	0.29		0.10	0.050	mg/L		05/30/14 08:45	05/30/14 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B03

Lab Sample ID: 500-77374-21

Date Collected: 05/20/14 15:00

Matrix: Solid

Date Received: 05/21/14 12:20

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		05/30/14 08:45	05/30/14 19:21	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:21	1
Cobalt	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:21	1
Iron	0.46		0.20	0.20	mg/L		05/30/14 08:45	05/30/14 19:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/30/14 08:45	05/30/14 19:21	1
Manganese	0.033		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:21	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:21	1
Selenium	<0.050		0.050	0.010	mg/L		05/30/14 08:45	05/30/14 19:21	1
Silver	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:21	1
Zinc	0.031	J	0.10	0.020	mg/L		05/30/14 08:45	05/30/14 19:21	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		05/30/14 08:45	05/30/14 18:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/14 08:45	05/30/14 18:16	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		05/30/14 14:45	06/02/14 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0065	mg/Kg	☆	05/23/14 15:00	05/27/14 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.81		0.200	0.200	SU			05/27/14 13:50	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B04

Lab Sample ID: 500-77374-22

Date Collected: 05/20/14 14:50

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 90.9

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	☼	05/21/14 17:20	05/24/14 01:58	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	05/21/14 17:20	05/24/14 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/21/14 17:20	05/24/14 01:58	1
Dibromofluoromethane	105		75 - 120	05/21/14 17:20	05/24/14 01:58	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	05/21/14 17:20	05/24/14 01:58	1
Toluene-d8 (Surr)	102		75 - 122	05/21/14 17:20	05/24/14 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B04

Lab Sample ID: 500-77374-22

Date Collected: 05/20/14 14:50

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.28	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B04

Lab Sample ID: 500-77374-22

Date Collected: 05/20/14 14:50

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0096	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	06/01/14 17:20	06/03/14 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110	06/01/14 17:20	06/03/14 17:29	1
Phenol-d5	41		31 - 110	06/01/14 17:20	06/03/14 17:29	1
Nitrobenzene-d5	32		25 - 115	06/01/14 17:20	06/03/14 17:29	1
2-Fluorobiphenyl	32		25 - 119	06/01/14 17:20	06/03/14 17:29	1
2,4,6-Tribromophenol	52		35 - 137	06/01/14 17:20	06/03/14 17:29	1
Terphenyl-d14	48		36 - 134	06/01/14 17:20	06/03/14 17:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Arsenic	2.6		0.53	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Barium	10		0.53	0.057	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Beryllium	0.14	J	0.21	0.042	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Boron	3.8		2.6	0.53	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Cadmium	0.14		0.11	0.013	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Calcium	110000	B	110	29	mg/Kg	☼	05/29/14 11:20	06/02/14 21:50	10
Chromium	3.8		0.53	0.061	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Cobalt	2.0		0.26	0.053	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Copper	6.6		0.53	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Iron	5500		11	4.3	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Lead	2.6	B	0.26	0.079	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Magnesium	50000		5.3	1.1	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Manganese	270	B	0.53	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Nickel	4.4		0.53	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Potassium	380		26	1.6	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Sodium	290		53	7.1	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Thallium	0.28	J	0.53	0.22	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Vanadium	7.4		0.26	0.039	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	1
Zinc	16		1.1	0.21	mg/Kg	☼	05/29/14 11:20	05/30/14 21:10	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		05/30/14 08:45	05/30/14 19:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/14 08:45	05/30/14 19:25	1
Boron	0.83		0.10	0.050	mg/L		05/30/14 08:45	05/30/14 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B04

Lab Sample ID: 500-77374-22

Date Collected: 05/20/14 14:50

Matrix: Solid

Date Received: 05/21/14 12:20

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		05/30/14 08:45	05/30/14 19:25	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:25	1
Cobalt	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:25	1
Iron	0.98		0.20	0.20	mg/L		05/30/14 08:45	05/30/14 19:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/30/14 08:45	05/30/14 19:25	1
Manganese	0.021	J	0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:25	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:25	1
Selenium	<0.050		0.050	0.010	mg/L		05/30/14 08:45	05/30/14 19:25	1
Silver	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:25	1
Zinc	0.051	J	0.10	0.020	mg/L		05/30/14 08:45	05/30/14 19:25	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		05/30/14 08:45	05/30/14 18:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/14 08:45	05/30/14 18:20	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		05/30/14 14:45	06/02/14 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	J	0.018	0.0071	mg/Kg	☆	05/23/14 15:00	05/27/14 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.86		0.200	0.200	SU			05/27/14 13:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B05

Lab Sample ID: 500-77374-23

Date Collected: 05/20/14 14:40

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.8

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	☼	05/21/14 17:20	05/24/14 02:22	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	05/21/14 17:20	05/24/14 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/21/14 17:20	05/24/14 02:22	1
Dibromofluoromethane	106		75 - 120	05/21/14 17:20	05/24/14 02:22	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/21/14 17:20	05/24/14 02:22	1
Toluene-d8 (Surr)	96		75 - 122	05/21/14 17:20	05/24/14 02:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B05

Lab Sample ID: 500-77374-23

Date Collected: 05/20/14 14:40

Matrix: Solid

Date Received: 05/21/14 12:20

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	<0.20		0.20	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B05

Lab Sample ID: 500-77374-23

Date Collected: 05/20/14 14:40

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.8

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	☼	06/01/14 17:20	06/03/14 17:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110				06/01/14 17:20	06/03/14 17:49	1
Phenol-d5	49		31 - 110				06/01/14 17:20	06/03/14 17:49	1
Nitrobenzene-d5	40		25 - 115				06/01/14 17:20	06/03/14 17:49	1
2-Fluorobiphenyl	44		25 - 119				06/01/14 17:20	06/03/14 17:49	1
2,4,6-Tribromophenol	62		35 - 137				06/01/14 17:20	06/03/14 17:49	1
Terphenyl-d14	49		36 - 134				06/01/14 17:20	06/03/14 17:49	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	☼	05/29/14 11:20	05/30/14 21:16	1
Arsenic	5.9		0.60	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Barium	60		0.60	0.064	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Beryllium	0.41		0.24	0.048	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Boron	1.9 J		3.0	0.60	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Cadmium	0.17		0.12	0.015	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Calcium	20000 B		12	3.3	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Chromium	9.8		0.60	0.070	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Cobalt	5.2		0.30	0.060	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Copper	13		0.60	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Iron	12000		12	4.9	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Lead	8.2 B		0.30	0.089	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Magnesium	13000		6.0	1.2	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Manganese	400 B		0.60	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Nickel	11		0.60	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Potassium	520		30	1.8	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Selenium	0.36 J		0.60	0.21	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Sodium	750		60	8.0	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Thallium	0.80		0.60	0.25	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Vanadium	19		0.30	0.044	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	1
Zinc	33		1.2	0.24	mg/Kg	☼	05/29/14 11:20	05/30/14 21:16	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		06/06/14 08:15	06/06/14 21:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B05

Lab Sample ID: 500-77374-23

Date Collected: 05/20/14 14:40

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.17	J	0.50	0.050	mg/L		05/30/14 08:45	05/30/14 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/14 08:45	05/30/14 19:31	1
Boron	0.79		0.10	0.050	mg/L		05/30/14 08:45	05/30/14 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/30/14 08:45	05/30/14 19:31	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:31	1
Iron	1.6		0.20	0.20	mg/L		05/30/14 08:45	05/30/14 19:31	1
Lead	0.0079		0.0075	0.0075	mg/L		05/30/14 08:45	05/30/14 19:31	1
Manganese	0.066		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:31	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:31	1
Selenium	<0.050		0.050	0.010	mg/L		05/30/14 08:45	05/30/14 19:31	1
Silver	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:31	1
Zinc	0.066	J	0.10	0.020	mg/L		05/30/14 08:45	05/30/14 19:31	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		05/30/14 08:45	05/30/14 18:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/14 08:45	05/30/14 18:24	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		05/30/14 14:45	06/02/14 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0070	mg/Kg	✱	05/23/14 15:00	05/27/14 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU			05/27/14 13:55	1

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B07

Lab Sample ID: 500-77374-25

Date Collected: 05/20/14 14:10

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 86.1

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	☼	05/21/14 17:20	05/24/14 03:11	1
Benzene	<0.0039		0.0039	0.00053	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Bromoform	<0.0039		0.0039	0.00089	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Bromomethane	<0.0039		0.0039	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Carbon disulfide	<0.0039		0.0039	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Carbon tetrachloride	<0.0039		0.0039	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Chlorobenzene	<0.0039		0.0039	0.00039	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Chloroethane	<0.0039		0.0039	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Chloroform	<0.0039		0.0039	0.00044	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Chloromethane	<0.0039		0.0039	0.00081	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00051	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Dibromochloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
1,1-Dichloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
1,1-Dichloroethene	<0.0039		0.0039	0.00062	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
1,2-Dichloropropane	<0.0039		0.0039	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00051	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Ethylbenzene	<0.0039		0.0039	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
2-Hexanone	<0.0039		0.0039	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Methylene Chloride	<0.0039		0.0039	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Styrene	<0.0039		0.0039	0.00051	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Tetrachloroethene	<0.0039		0.0039	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Toluene	<0.0039		0.0039	0.00054	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00053	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00069	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00053	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Trichloroethene	<0.0039		0.0039	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Vinyl acetate	<0.0039		0.0039	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Vinyl chloride	<0.0039		0.0039	0.00081	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	05/21/14 17:20	05/24/14 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/21/14 17:20	05/24/14 03:11	1
Dibromofluoromethane	106		75 - 120	05/21/14 17:20	05/24/14 03:11	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/21/14 17:20	05/24/14 03:11	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/24/14 03:11	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	☼	06/01/14 17:20	06/03/14 18:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B07

Lab Sample ID: 500-77374-25

Date Collected: 05/20/14 14:10

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 86.1

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	☼	06/01/14 17:20	06/03/14 18:31	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B07

Lab Sample ID: 500-77374-25

Date Collected: 05/20/14 14:10

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		25 - 110	06/01/14 17:20	06/03/14 18:31	1
Phenol-d5	58		31 - 110	06/01/14 17:20	06/03/14 18:31	1
Nitrobenzene-d5	49		25 - 115	06/01/14 17:20	06/03/14 18:31	1
2-Fluorobiphenyl	50		25 - 119	06/01/14 17:20	06/03/14 18:31	1
2,4,6-Tribromophenol	63		35 - 137	06/01/14 17:20	06/03/14 18:31	1
Terphenyl-d14	57		36 - 134	06/01/14 17:20	06/03/14 18:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Arsenic	3.9		0.53	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Barium	23		0.53	0.057	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Beryllium	0.19	J	0.21	0.042	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Boron	4.6		2.7	0.53	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Cadmium	0.22		0.11	0.013	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Calcium	85000	B	110	29	mg/Kg	☼	05/29/14 11:20	06/02/14 21:54	10
Chromium	5.3		0.53	0.062	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Cobalt	3.3		0.27	0.053	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Copper	9.5		0.53	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Iron	7900		11	4.4	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Lead	4.3	B	0.27	0.079	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Magnesium	43000		5.3	1.1	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Manganese	280	B	0.53	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Nickel	7.1		0.53	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Potassium	610		27	1.6	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Sodium	1000		53	7.1	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Thallium	0.50	J	0.53	0.22	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Vanadium	9.5		0.27	0.039	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	1
Zinc	25		1.1	0.21	mg/Kg	☼	05/29/14 11:20	05/30/14 21:29	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		06/06/14 08:15	06/06/14 21:22	1
Manganese	0.20		0.025	0.010	mg/L		06/06/14 08:15	06/09/14 11:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B07

Lab Sample ID: 500-77374-25

Date Collected: 05/20/14 14:10

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22	J	0.50	0.050	mg/L		05/30/14 08:45	05/30/14 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/14 08:45	05/30/14 19:47	1
Boron	0.89		0.10	0.050	mg/L		05/30/14 08:45	05/30/14 19:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/30/14 08:45	05/30/14 19:47	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:47	1
Cobalt	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:47	1
Iron	0.81		0.20	0.20	mg/L		05/30/14 08:45	05/30/14 19:47	1
Lead	0.022		0.0075	0.0075	mg/L		05/30/14 08:45	05/30/14 19:47	1
Manganese	0.22		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:47	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:47	1
Selenium	<0.050		0.050	0.010	mg/L		05/30/14 08:45	05/30/14 19:47	1
Silver	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:47	1
Zinc	0.063	J	0.10	0.020	mg/L		05/30/14 08:45	05/30/14 19:47	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		05/30/14 08:45	05/30/14 18:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/14 08:45	05/30/14 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	J	0.017	0.0067	mg/Kg	✱	05/23/14 15:00	05/27/14 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			05/27/14 13:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B07 Dup

Lab Sample ID: 500-77374-26

Date Collected: 05/20/14 14:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0017	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Benzene	<0.0038		0.0038	0.00053	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Bromodichloromethane	<0.0038		0.0038	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Bromoform	<0.0038		0.0038	0.00088	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Bromomethane	<0.0038		0.0038	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Carbon disulfide	<0.0038		0.0038	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Carbon tetrachloride	<0.0038		0.0038	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Chlorobenzene	<0.0038		0.0038	0.00039	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Chloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Chloroform	<0.0038		0.0038	0.00044	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Chloromethane	<0.0038		0.0038	0.00081	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00054	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00050	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Dibromochloromethane	<0.0038		0.0038	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
1,1-Dichloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
1,1-Dichloroethene	<0.0038		0.0038	0.00062	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
1,2-Dichloropropane	<0.0038		0.0038	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.00050	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Ethylbenzene	<0.0038		0.0038	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
2-Hexanone	<0.0038		0.0038	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Methylene Chloride	<0.0038		0.0038	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Styrene	<0.0038		0.0038	0.00050	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
1,1,1,2-Tetrachloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Tetrachloroethene	<0.0038		0.0038	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Toluene	<0.0038		0.0038	0.00054	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00053	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.00069	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00052	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Trichloroethene	<0.0038		0.0038	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Vinyl acetate	<0.0038		0.0038	0.00060	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Vinyl chloride	<0.0038		0.0038	0.00081	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	05/21/14 17:20	05/24/14 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/21/14 17:20	05/24/14 03:35	1
Dibromofluoromethane	106		75 - 120	05/21/14 17:20	05/24/14 03:35	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	05/21/14 17:20	05/24/14 03:35	1
Toluene-d8 (Surr)	104		75 - 122	05/21/14 17:20	05/24/14 03:35	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	☼	06/01/14 17:20	06/05/14 18:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B07 Dup

Lab Sample ID: 500-77374-26

Date Collected: 05/20/14 14:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 84.7

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	☼	06/01/14 17:20	06/05/14 18:43	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Phenanthrene	0.037		0.037	0.0051	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Anthracene	0.0094 J		0.037	0.0062	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Fluoranthene	0.080		0.037	0.0068	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Pyrene	0.077		0.037	0.0073	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B07 Dup

Lab Sample ID: 500-77374-26

Date Collected: 05/20/14 14:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 84.7

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	☼	06/01/14 17:20	06/05/14 18:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Benzo[b]fluoranthene	<0.037		0.037	0.0079	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0095	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	06/01/14 17:20	06/05/14 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110	06/01/14 17:20	06/05/14 18:43	1
Phenol-d5	42		31 - 110	06/01/14 17:20	06/05/14 18:43	1
Nitrobenzene-d5	34		25 - 115	06/01/14 17:20	06/05/14 18:43	1
2-Fluorobiphenyl	45		25 - 119	06/01/14 17:20	06/05/14 18:43	1
2,4,6-Tribromophenol	60		35 - 137	06/01/14 17:20	06/05/14 18:43	1
Terphenyl-d14	55		36 - 134	06/01/14 17:20	06/05/14 18:43	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	☼	05/29/14 11:20	05/30/14 21:35	1
Arsenic	4.7		0.58	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Barium	25		0.58	0.062	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Beryllium	0.19 J		0.23	0.046	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Boron	4.4		2.9	0.58	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Cadmium	0.22		0.12	0.015	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Calcium	86000 B		120	31	mg/Kg	☼	05/29/14 11:20	06/02/14 21:58	10
Chromium	6.3		0.58	0.067	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Cobalt	3.5		0.29	0.058	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Copper	10		0.58	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Iron	8800		12	4.8	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Lead	4.7 B		0.29	0.086	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Magnesium	43000		5.8	1.2	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Manganese	280 B		0.58	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Nickel	7.4		0.58	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Potassium	590		29	1.7	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Sodium	1100		58	7.8	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Thallium	0.44 J		0.58	0.24	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Vanadium	9.9		0.29	0.043	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	1
Zinc	26		1.2	0.23	mg/Kg	☼	05/29/14 11:20	05/30/14 21:35	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		06/06/14 09:00	06/06/14 16:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B07 Dup

Lab Sample ID: 500-77374-26

Date Collected: 05/20/14 14:15

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.10	J	0.50	0.050	mg/L		05/30/14 08:45	05/30/14 19:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/14 08:45	05/30/14 19:51	1
Boron	0.77		0.10	0.050	mg/L		05/30/14 08:45	05/30/14 19:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/30/14 08:45	05/30/14 19:51	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:51	1
Cobalt	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:51	1
Iron	0.66		0.20	0.20	mg/L		05/30/14 08:45	05/30/14 19:51	1
Lead	0.0084		0.0075	0.0075	mg/L		05/30/14 08:45	05/30/14 19:51	1
Manganese	0.084		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:51	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:51	1
Selenium	<0.050		0.050	0.010	mg/L		05/30/14 08:45	05/30/14 19:51	1
Silver	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:51	1
Zinc	0.036	J	0.10	0.020	mg/L		05/30/14 08:45	05/30/14 19:51	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		05/30/14 08:45	05/30/14 18:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/14 08:45	05/30/14 18:35	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		05/30/14 14:45	06/02/14 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0092	J	0.017	0.0067	mg/Kg	✪	05/23/14 15:00	05/27/14 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		0.200	0.200	SU			05/27/14 14:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

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.
B	Compound was found in the blank and sample.

Glossary

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



CHAIN OF CUSTODY RECORD

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Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 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: US30 Sugar Shove Kane Co
 Project No.: IDOT 2013-074
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: CFM
 Matrix Key:
 W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

COC No.: 1 of 1
 Lab Job No.: 500-77374
 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	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
--	------	-------	-------------	------	------------	------	----------------	---------------------	----	----------	------------------------	----------

Lab ID	Sample ID	Sample Date	Sample Time	Matrix
19	2819-47-B01	5/20	3:25	S
20	2819-47-B02		3:15	S
21	2819-47-B03		3:00	S
22	2819-47-B04		2:50	S
23	2819-47-B05		2:40	S
24	2819-47-B06		2:25	S
25	2819-47-B07		2:10	S
26	2819-47-B07 DUP		2:15	S
27	2819-47-B08		1:50	S

Date/Time	Received by:
5/20/14 4:00	[Signature]
5/20/14 12:00	[Signature]



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

100W700 block of US 30

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76458 Longitude: -88.47219
(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

Project Name: FAP 573 (US 30)

Latitude: 41.76458 Longitude: -88.47219

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 2819-42-B14 AND 2819-45-B02 WERE SAMPLED ADJACENT TO ISGS SITE 2819-45. SEE FIGURES 7 AND 8 AND TABLE 3t OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-77465-6 AND 500-77374-1

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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

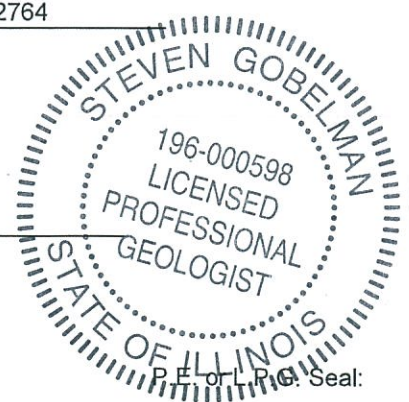
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-45

IDOT Row

Sample ID	2819-42-B14	2819-45-B02	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)	0-6	0-3						
Sample Date	5/20/2014	5/21/2014						
PID	0	0						
Sample pH	7.84	7.65						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77374-1
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson



Authorized for release by:
6/11/2014 10:05:37 AM

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

LINKS

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results through
TotalAccess

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B14

Lab Sample ID: 500-77374-3

Date Collected: 05/20/14 09:40

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.1

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	☼	05/21/14 17:20	05/23/14 14:53	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1
Xylenes, Total	<0.0089		0.0089	0.00041	mg/Kg	☼	05/21/14 17:20	05/23/14 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	05/21/14 17:20	05/23/14 14:53	1
Dibromofluoromethane	105		75 - 120	05/21/14 17:20	05/23/14 14:53	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	05/21/14 17:20	05/23/14 14:53	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/23/14 14:53	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	☼	05/31/14 22:14	06/03/14 02:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B14

Lab Sample ID: 500-77374-3

Date Collected: 05/20/14 09:40

Matrix: Solid

Date Received: 05/21/14 12:20

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	☼	05/31/14 22:14	06/03/14 02:45	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B14

Lab Sample ID: 500-77374-3

Date Collected: 05/20/14 09:40

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.1

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	☼	05/31/14 22:14	06/03/14 02:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/31/14 22:14	06/03/14 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		25 - 110	05/31/14 22:14	06/03/14 02:45	1
Phenol-d5	38		31 - 110	05/31/14 22:14	06/03/14 02:45	1
Nitrobenzene-d5	39		25 - 115	05/31/14 22:14	06/03/14 02:45	1
2-Fluorobiphenyl	41		25 - 119	05/31/14 22:14	06/03/14 02:45	1
2,4,6-Tribromophenol	67		35 - 137	05/31/14 22:14	06/03/14 02:45	1
Terphenyl-d14	54		36 - 134	05/31/14 22:14	06/03/14 02:45	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	☼	05/29/14 09:57	05/31/14 09:32	1
Arsenic	6.4		0.58	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Barium	82		0.58	0.062	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Beryllium	0.40		0.23	0.046	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Boron	3.5		2.9	0.58	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Cadmium	0.066 J		0.12	0.015	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Calcium	34000		12	3.1	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Chromium	11		0.58	0.067	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Cobalt	3.9		0.29	0.058	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Copper	13		0.58	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Iron	13000		12	4.8	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Lead	6.1		0.29	0.086	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Magnesium	22000		5.8	1.2	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Manganese	240		0.58	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Nickel	12		0.58	0.12	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Potassium	820		29	1.7	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Silver	0.023 J		0.29	0.021	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Sodium	1600		58	7.7	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Thallium	0.68		0.58	0.24	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Vanadium	21		0.29	0.043	mg/Kg	☼	05/29/14 09:57	05/31/14 09:32	1
Zinc	30		1.2	0.23	mg/Kg	☼	05/29/14 09:57	06/02/14 18:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 19:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

Client Sample ID: 2819-42-B14

Lab Sample ID: 500-77374-3

Date Collected: 05/20/14 09:40

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 05:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 05:42	1
Boron	1.3	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 05:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 05:42	1
Chromium	0.034		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:42	1
Cobalt	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:42	1
Iron	25		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 05:42	1
Lead	0.022		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 05:42	1
Manganese	0.11		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:42	1
Nickel	0.021	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:42	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 05:42	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 05:42	1
Zinc	0.17	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 05:42	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		05/29/14 12:00	05/30/14 16:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:22	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		05/30/14 14:45	06/02/14 11:49	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	0.026		0.017	0.0068	mg/Kg	✱	05/23/14 15:00	05/27/14 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.200	0.200	SU			05/27/14 13:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-1

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.

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.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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

CHAIN OF CUSTODY RECORD

Client 500-77374 COC
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 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: US30 Superfund Kane Co
 Project No.: IDOT 2013-074
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: CF/cm

COC No.: 1 of 1
 Lab Job No.: 500-77374
 Sample Temp.: (2.6) (2.3) (3.0)
 Matrix Key:
 W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

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.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
1	2819-42-B12	5/20	9:25	S	X	X					X	X	X	X		D-6
2	2819-42-B13		9:30	S	X	X					X	X	X	X		
3	2819-42-B14		9:40	S	X	X					X	X	X	X		
4	2819-42-B15		9:45	S	X	X					X	X	X	X		
5	2819-42-B16		10:00	S	X	X					X	X	X	X		
	2819-42-B17			S	X	X					X	X	X	X		
	2819-42-B18			S	X	X					X	X	X	X		
6	2819-42-B11	5/20	9:15	S	X	X					X	X	X	X		0-6
<p>Relinquished by: <u>[Signature]</u> Date/Time: <u>5/20/14 4:07</u> Received by: <u>[Signature]</u> Date/Time: <u>5/21/14 1:50</u></p> <p>Relinquished by: <u>[Signature]</u> Date/Time: <u>5/21/14 12:20</u> Received by: <u>[Signature]</u> Date/Time: <u>5/21/14 12:20</u></p> <p>Relinquished by: <u>[Signature]</u> Date/Time: <u>5/21/14</u> Received by: <u>[Signature]</u> Date/Time: <u>5/21/14 12:20</u></p>																

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: 500-77465-6
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/17/2014 9:10:01 AM

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

LINKS

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Visit us at:
www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Client Sample ID: 2819-45-B02

Lab Sample ID: 500-77465-32

Date Collected: 05/21/14 09:45

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	05/22/14 17:45	05/30/14 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	05/22/14 17:45	05/30/14 15:34	1
Dibromofluoromethane	107		75 - 120	05/22/14 17:45	05/30/14 15:34	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/22/14 17:45	05/30/14 15:34	1
Toluene-d8 (Surr)	102		75 - 122	05/22/14 17:45	05/30/14 15:34	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	☼	06/03/14 19:27	06/04/14 14:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Client Sample ID: 2819-45-B02

Lab Sample ID: 500-77465-32

Date Collected: 05/21/14 09:45

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 87.8

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	0.044	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2,4-Dinitrophenol	<0.74	*	0.74	0.65	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.30	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Phenanthrene	<0.037		0.037	0.0051	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Client Sample ID: 2819-45-B02

Lab Sample ID: 500-77465-32

Date Collected: 05/21/14 09:45

Matrix: Solid

Date Received: 05/22/14 12:10

Percent Solids: 87.8

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	☼	06/03/14 19:27	06/04/14 14:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
Benzo[g,h,i]perylene	<0.037	*	0.037	0.012	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	06/03/14 19:27	06/04/14 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	06/03/14 19:27	06/04/14 14:59	1
Phenol-d5	42		31 - 110	06/03/14 19:27	06/04/14 14:59	1
Nitrobenzene-d5	49		25 - 115	06/03/14 19:27	06/04/14 14:59	1
2-Fluorobiphenyl	52		25 - 119	06/03/14 19:27	06/04/14 14:59	1
2,4,6-Tribromophenol	34	X	35 - 137	06/03/14 19:27	06/04/14 14:59	1
Terphenyl-d14	97		36 - 134	06/03/14 19:27	06/04/14 14:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Arsenic	5.6		0.55	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Barium	130		0.55	0.059	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Beryllium	0.46		0.22	0.044	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Boron	4.1		2.8	0.55	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Cadmium	0.24		0.11	0.014	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Calcium	21000		11	3.0	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Chromium	13		0.55	0.064	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Cobalt	4.9		0.28	0.055	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Copper	14		0.55	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Iron	13000		11	4.5	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Lead	7.9		0.28	0.082	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Magnesium	14000		5.5	1.1	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Manganese	380		0.55	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Nickel	15		0.55	0.11	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Potassium	870		28	1.7	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Selenium	0.23	J	0.55	0.20	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Sodium	1200		55	7.4	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Thallium	0.80		0.55	0.23	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Vanadium	23		0.28	0.041	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1
Zinc	31		1.1	0.22	mg/Kg	☼	06/04/14 16:00	06/05/14 16:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		06/13/14 08:30	06/13/14 22:01	1
Lead	0.0095		0.0075	0.0075	mg/L		06/13/14 08:30	06/13/14 22:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Client Sample ID: 2819-45-B02

Lab Sample ID: 500-77465-32

Date Collected: 05/21/14 09:45

Matrix: Solid

Date Received: 05/22/14 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		06/06/14 09:50	06/06/14 21:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/06/14 09:50	06/06/14 21:38	1
Boron	1.0		0.10	0.050	mg/L		06/06/14 09:50	06/06/14 21:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/06/14 09:50	06/06/14 21:38	1
Chromium	0.020	J	0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:38	1
Cobalt	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:38	1
Iron	12		0.20	0.20	mg/L		06/06/14 09:50	06/06/14 21:38	1
Lead	0.0082		0.0075	0.0075	mg/L		06/06/14 09:50	06/06/14 21:38	1
Manganese	0.059		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:38	1
Nickel	0.017	J	0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:38	1
Selenium	<0.050		0.050	0.010	mg/L		06/06/14 09:50	06/06/14 21:38	1
Silver	<0.025		0.025	0.010	mg/L		06/06/14 09:50	06/06/14 21:38	1
Zinc	0.088	J	0.10	0.020	mg/L		06/06/14 09:50	06/06/14 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/06/14 09:50	06/06/14 18:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/06/14 09:50	06/06/14 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		06/06/14 12:30	06/09/14 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0069	mg/Kg	✪	05/28/14 14:30	05/29/14 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65		0.200	0.200	SU			05/28/14 16:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77465-6

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	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.
*	ISTD response or retention time outside acceptable 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.

Glossary

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



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

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

100W700 block of US 30 (Southwest and Southeast corners of US 30 and Veterans Memorial Parkway)

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76504 Longitude: -88.46331

(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: FAP 573 (US 30)

Latitude: 41.76504 Longitude: -88.46331

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 2819-46-B01 -B02, -B03, -B05, -B07, -B08 AND -B09 WERE SAMPLED ADJACENT TO ISGS SITE 2819-46. SEE FIGURES 8 THROUGH 10 AND TABLE 3u OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-77374-3

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: IDOT Bureau of Design and Environment

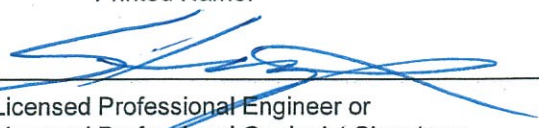
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

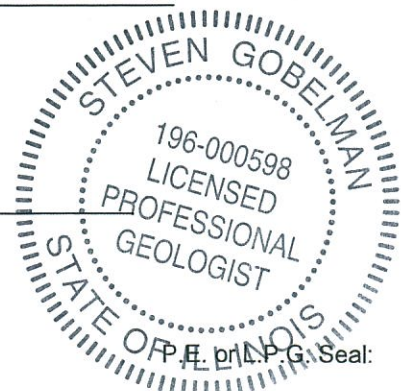
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

1/24/19
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-46

Agricultural Land

Sample ID	2819-46-B01	2819-46-B02	2819-46-B03	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non- Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-6	0-6						
Sample Date	5/20/2014	5/20/2014	5/20/2014						
PID	0	0	0						
Sample pH	7.75	8.17	8.3						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

Sample ID	2819-46-B05	2819-46-B07	2819-46-B08	2819-46-B09	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)	0-6	0-6	0-6	0-6						
Sample Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014						
PID	0	0	0	0						
Sample pH	8.58	7.4	7.59	8.2						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77374-3
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson



Authorized for release by:
6/11/2014 10:17:48 AM

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

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www.testamericainc.com

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

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

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

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B01

Lab Sample ID: 500-77374-9

Date Collected: 05/20/14 10:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.035		0.0051	0.0022	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Bromomethane	<0.0051		0.0051	0.0016	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
2-Butanone (MEK)	0.010		0.0051	0.0019	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Chloroethane	<0.0051	*	0.0051	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Vinyl acetate	<0.0051		0.0051	0.00081	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	05/21/14 17:20	05/23/14 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	05/21/14 17:20	05/23/14 17:17	1
Dibromofluoromethane	107		75 - 120	05/21/14 17:20	05/23/14 17:17	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	05/21/14 17:20	05/23/14 17:17	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/23/14 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.095	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B01

Lab Sample ID: 500-77374-9

Date Collected: 05/20/14 10:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 76.9

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	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.052	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2-Methylnaphthalene	<0.043		0.043	0.0079	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Hexachlorobenzene	<0.087		0.087	0.0099	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.34	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Fluoranthene	0.012	J	0.043	0.0080	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Pyrene	0.011	J	0.043	0.0085	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B01

Lab Sample ID: 500-77374-9

Date Collected: 05/20/14 10:15

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Benzo[b]fluoranthene	0.010	J	0.043	0.0093	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	05/31/14 22:14	06/03/14 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110				05/31/14 22:14	06/03/14 19:53	1
Phenol-d5	60		31 - 110				05/31/14 22:14	06/03/14 19:53	1
Nitrobenzene-d5	47		25 - 115				05/31/14 22:14	06/03/14 19:53	1
2-Fluorobiphenyl	52		25 - 119				05/31/14 22:14	06/03/14 19:53	1
2,4,6-Tribromophenol	71		35 - 137				05/31/14 22:14	06/03/14 19:53	1
Terphenyl-d14	56		36 - 134				05/31/14 22:14	06/03/14 19:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Arsenic	4.0		0.63	0.13	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Barium	81		0.63	0.067	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Beryllium	0.50		0.25	0.050	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Boron	3.8		3.2	0.63	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Cadmium	0.46		0.13	0.016	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Calcium	30000		13	3.4	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Chromium	13		0.63	0.073	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Cobalt	6.1		0.32	0.063	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Copper	15		0.63	0.13	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Iron	13000		13	5.2	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Lead	19		0.32	0.094	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Magnesium	19000	B	6.3	1.3	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Manganese	380		0.63	0.13	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Nickel	14		0.63	0.13	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Potassium	1000		32	1.9	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Selenium	0.59	J	0.63	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Silver	0.035	J B	0.32	0.023	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Sodium	570		63	8.4	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Thallium	0.76		0.63	0.27	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Vanadium	25		0.32	0.047	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1
Zinc	56		1.3	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 19:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 20:10	1
Manganese	3.1		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B01

Lab Sample ID: 500-77374-9

Date Collected: 05/20/14 10:15

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 06:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 06:39	1
Boron	1.2	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 06:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 06:39	1
Chromium	0.040		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:39	1
Cobalt	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:39	1
Iron	39		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 06:39	1
Lead	0.055		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 06:39	1
Manganese	0.37		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:39	1
Nickel	0.029		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:39	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 06:39	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:39	1
Zinc	0.19	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 06:39	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		05/29/14 12:00	05/30/14 16:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:55	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		05/30/14 14:45	06/02/14 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.021	0.0083	mg/Kg	✱	05/23/14 15:00	05/27/14 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75		0.200	0.200	SU			05/27/14 13:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B02

Lab Sample ID: 500-77374-10

Date Collected: 05/20/14 10:20

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0087		0.0045	0.0020	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/21/14 17:20	05/23/14 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	05/21/14 17:20	05/23/14 17:41	1
Dibromofluoromethane	108		75 - 120	05/21/14 17:20	05/23/14 17:41	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	05/21/14 17:20	05/23/14 17:41	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/23/14 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B02

Lab Sample ID: 500-77374-10

Date Collected: 05/20/14 10:20

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.6

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	☼	05/31/14 22:14	06/03/14 15:03	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B02

Lab Sample ID: 500-77374-10

Date Collected: 05/20/14 10:20

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.6

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	☼	05/31/14 22:14	06/03/14 15:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		25 - 110	05/31/14 22:14	06/03/14 15:03	1
Phenol-d5	64		31 - 110	05/31/14 22:14	06/03/14 15:03	1
Nitrobenzene-d5	54		25 - 115	05/31/14 22:14	06/03/14 15:03	1
2-Fluorobiphenyl	54		25 - 119	05/31/14 22:14	06/03/14 15:03	1
2,4,6-Tribromophenol	68		35 - 137	05/31/14 22:14	06/03/14 15:03	1
Terphenyl-d14	56		36 - 134	05/31/14 22:14	06/03/14 15:03	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	☼	05/29/14 09:57	06/02/14 19:32	1
Arsenic	6.2		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Barium	73		0.62	0.066	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Beryllium	0.61		0.25	0.050	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Boron	3.1		3.1	0.62	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Cadmium	0.49		0.12	0.016	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Calcium	20000		12	3.4	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Chromium	17		0.62	0.072	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Cobalt	5.3		0.31	0.062	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Copper	21		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Iron	24000		12	5.1	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Lead	14		0.31	0.093	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Magnesium	14000 B		6.2	1.3	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Manganese	230		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Nickel	17		0.62	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Potassium	1000		31	1.9	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Selenium	0.72		0.62	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Sodium	960		62	8.3	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Thallium	1.0		0.62	0.26	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Vanadium	32		0.31	0.046	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1
Zinc	67		1.2	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 19:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 20:23	1
Manganese	1.5		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B02

Lab Sample ID: 500-77374-10

Date Collected: 05/20/14 10:20

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 06:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 06:45	1
Boron	1.6	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 06:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 06:45	1
Chromium	0.047		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:45	1
Cobalt	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:45	1
Iron	40		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 06:45	1
Lead	0.019		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 06:45	1
Manganese	0.20		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:45	1
Nickel	0.033		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:45	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 06:45	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:45	1
Zinc	0.18	B	0.10	0.020	mg/L		05/29/14 12:00	05/31/14 06:45	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		05/29/14 12:00	05/30/14 16:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.021	0.0081	mg/Kg	✱	05/23/14 15:00	05/27/14 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			05/27/14 13:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B03

Lab Sample ID: 500-77374-11

Date Collected: 05/20/14 10:35

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0048	0.0021	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
2-Butanone (MEK)	0.0039	J	0.0048	0.0017	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
1,1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
1,1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	05/21/14 17:20	05/23/14 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	05/21/14 17:20	05/23/14 18:05	1
Dibromofluoromethane	105		75 - 120	05/21/14 17:20	05/23/14 18:05	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	05/21/14 17:20	05/23/14 18:05	1
Toluene-d8 (Surr)	99		75 - 122	05/21/14 17:20	05/23/14 18:05	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	☼	05/31/14 22:14	06/05/14 18:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B03

Lab Sample ID: 500-77374-11

Date Collected: 05/20/14 10:35

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.2

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	☼	05/31/14 22:14	06/05/14 18:05	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Phenanthrene	0.0092	J	0.040	0.0056	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Fluoranthene	0.023	J	0.040	0.0074	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Pyrene	0.022	J	0.040	0.0079	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B03

Lab Sample ID: 500-77374-11

Date Collected: 05/20/14 10:35

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 82.2

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	☼	05/31/14 22:14	06/05/14 18:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/31/14 22:14	06/05/14 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110	05/31/14 22:14	06/05/14 18:05	1
Phenol-d5	42		31 - 110	05/31/14 22:14	06/05/14 18:05	1
Nitrobenzene-d5	34		25 - 115	05/31/14 22:14	06/05/14 18:05	1
2-Fluorobiphenyl	49		25 - 119	05/31/14 22:14	06/05/14 18:05	1
2,4,6-Tribromophenol	62		35 - 137	05/31/14 22:14	06/05/14 18:05	1
Terphenyl-d14	63		36 - 134	05/31/14 22:14	06/05/14 18:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Arsenic	5.5		0.60	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Barium	72		0.60	0.064	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Beryllium	0.48		0.24	0.048	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Boron	7.3		3.0	0.60	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Cadmium	0.50		0.12	0.015	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Calcium	47000		12	3.2	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Chromium	16		0.60	0.069	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Cobalt	6.2		0.30	0.060	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Copper	14		0.60	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Iron	14000		12	4.9	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Lead	99		0.30	0.089	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Magnesium	29000	B	6.0	1.2	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Manganese	470		0.60	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Nickel	13		0.60	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Potassium	1500		30	1.8	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Selenium	0.42	J	0.60	0.21	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Silver	0.051	J B	0.30	0.022	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Sodium	1400		60	8.0	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Thallium	0.86		0.60	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Vanadium	23		0.30	0.044	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1
Zinc	50		1.2	0.24	mg/Kg	☼	05/29/14 09:57	06/02/14 19:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.59		0.10	0.050	mg/L		06/06/14 08:15	06/06/14 20:28	1
Chromium	<0.025		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:28	1
Iron	<0.20		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B03

Lab Sample ID: 500-77374-11

Date Collected: 05/20/14 10:35

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 20:28	1
Manganese	5.8		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:28	1
Nickel	0.013	J	0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.7	J	2.5	0.25	mg/L		05/29/14 12:00	05/31/14 06:51	5
Beryllium	<0.020		0.020	0.020	mg/L		05/29/14 12:00	05/31/14 06:51	5
Boron	6.5	B	1.0	0.25	mg/L		05/29/14 12:00	05/31/14 06:51	5
Cadmium	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 06:51	5
Chromium	0.30		0.13	0.050	mg/L		05/29/14 12:00	05/31/14 06:51	5
Cobalt	0.084	J	0.13	0.050	mg/L		05/29/14 12:00	05/31/14 06:51	5
Iron	280		1.0	1.0	mg/L		05/29/14 12:00	05/31/14 06:51	5
Lead	0.48		0.038	0.038	mg/L		05/29/14 12:00	05/31/14 06:51	5
Manganese	2.7		0.13	0.050	mg/L		05/29/14 12:00	05/31/14 06:51	5
Nickel	0.27		0.13	0.050	mg/L		05/29/14 12:00	05/31/14 06:51	5
Selenium	<0.25		0.25	0.050	mg/L		05/29/14 12:00	05/31/14 06:51	5
Silver	<0.13		0.13	0.050	mg/L		05/29/14 12:00	05/31/14 06:51	5
Zinc	1.4	B	0.50	0.10	mg/L		05/29/14 12:00	05/31/14 06:51	5

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		05/29/14 12:00	05/30/14 17:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0077	mg/Kg	☼	05/23/14 15:00	05/27/14 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			05/27/14 13:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B05

Lab Sample ID: 500-77374-14

Date Collected: 05/20/14 11:10

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0037		0.0037	0.0016	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Benzene	<0.0037		0.0037	0.00050	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Bromoform	<0.0037		0.0037	0.00085	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Carbon disulfide	<0.0037		0.0037	0.00055	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Carbon tetrachloride	<0.0037		0.0037	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Chlorobenzene	<0.0037		0.0037	0.00037	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Chloroethane	<0.0037	*	0.0037	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Chloroform	<0.0037		0.0037	0.00042	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Chloromethane	<0.0037		0.0037	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00052	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00048	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Dibromochloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
1,1-Dichloroethane	<0.0037		0.0037	0.00058	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
1,2-Dichloroethane	<0.0037		0.0037	0.00054	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
1,1,1-Dichloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
1,2-Dichloropropane	<0.0037		0.0037	0.00056	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00048	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Ethylbenzene	<0.0037		0.0037	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Methylene Chloride	<0.0037		0.0037	0.00099	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00096	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Styrene	<0.0037		0.0037	0.00048	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
1,1,1,2-Tetrachloroethane	<0.0037		0.0037	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Tetrachloroethene	<0.0037		0.0037	0.00056	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Toluene	<0.0037		0.0037	0.00051	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00050	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Trichloroethene	<0.0037		0.0037	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Vinyl acetate	<0.0037		0.0037	0.00058	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Vinyl chloride	<0.0037		0.0037	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1
Xylenes, Total	<0.0074		0.0074	0.00033	mg/Kg	☼	05/21/14 17:20	05/23/14 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/21/14 17:20	05/23/14 19:17	1
Dibromofluoromethane	107		75 - 120	05/21/14 17:20	05/23/14 19:17	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/21/14 17:20	05/23/14 19:17	1
Toluene-d8 (Surr)	100		75 - 122	05/21/14 17:20	05/23/14 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B05

Lab Sample ID: 500-77374-14

Date Collected: 05/20/14 11:10

Matrix: Solid

Date Received: 05/21/14 12:20

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	0.043	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B05

Lab Sample ID: 500-77374-14

Date Collected: 05/20/14 11:10

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	05/31/14 22:14	06/03/14 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110				05/31/14 22:14	06/03/14 15:44	1
Phenol-d5	72		31 - 110				05/31/14 22:14	06/03/14 15:44	1
Nitrobenzene-d5	63		25 - 115				05/31/14 22:14	06/03/14 15:44	1
2-Fluorobiphenyl	61		25 - 119				05/31/14 22:14	06/03/14 15:44	1
2,4,6-Tribromophenol	75		35 - 137				05/31/14 22:14	06/03/14 15:44	1
Terphenyl-d14	66		36 - 134				05/31/14 22:14	06/03/14 15:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Arsenic	3.9		0.53	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Barium	18		0.53	0.057	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Beryllium	0.20	J	0.21	0.042	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Boron	6.1		2.6	0.53	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Cadmium	0.28		0.11	0.013	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Calcium	120000		110	29	mg/Kg	☼	05/29/14 09:57	06/03/14 12:39	10
Chromium	7.0		0.53	0.061	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Cobalt	3.0		0.26	0.053	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Copper	9.1		0.53	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Iron	8000		11	4.4	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Lead	4.0		0.26	0.079	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Magnesium	51000	B	5.3	1.1	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Manganese	260		0.53	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Nickel	7.0		0.53	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Potassium	900		26	1.6	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Sodium	520		53	7.1	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Thallium	0.53		0.53	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Vanadium	10		0.26	0.039	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1
Zinc	21		1.1	0.21	mg/Kg	☼	05/29/14 09:57	06/02/14 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.088	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 07:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 07:25	1
Boron	1.2	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 07:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B05

Lab Sample ID: 500-77374-14

Date Collected: 05/20/14 11:10

Matrix: Solid

Date Received: 05/21/14 12:20

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		05/29/14 12:00	05/31/14 07:25	1
Chromium	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:25	1
Cobalt	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:25	1
Iron	3.6		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 07:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 07:25	1
Manganese	0.050		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:25	1
Nickel	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:25	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 07:25	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:25	1
Zinc	0.048	J B	0.10	0.020	mg/L		05/29/14 12:00	06/02/14 18:45	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		05/29/14 12:00	05/30/14 17:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 17:14	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		05/30/14 14:45	06/02/14 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0066	mg/Kg	☆	05/23/14 15:00	05/27/14 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU			05/27/14 13:32	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B07

Lab Sample ID: 500-77374-16

Date Collected: 05/20/14 12:40

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0047	0.0020	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
2-Butanone (MEK)	0.0060		0.0047	0.0017	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	05/21/14 17:20	05/23/14 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/21/14 17:20	05/23/14 20:05	1
Dibromofluoromethane	105		75 - 120	05/21/14 17:20	05/23/14 20:05	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/21/14 17:20	05/23/14 20:05	1
Toluene-d8 (Surr)	102		75 - 122	05/21/14 17:20	05/23/14 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B07

Lab Sample ID: 500-77374-16

Date Collected: 05/20/14 12:40

Matrix: Solid

Date Received: 05/21/14 12:20

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	<0.21		0.21	0.050	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Phenanthrene	0.0074	J	0.041	0.0058	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Fluoranthene	0.011	J	0.041	0.0077	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Pyrene	0.011	J	0.041	0.0083	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B07

Lab Sample ID: 500-77374-16

Date Collected: 05/20/14 12:40

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Benzo[b]fluoranthene	0.010	J	0.041	0.0090	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110				06/01/14 17:20	06/03/14 16:05	1
Phenol-d5	52		31 - 110				06/01/14 17:20	06/03/14 16:05	1
Nitrobenzene-d5	42		25 - 115				06/01/14 17:20	06/03/14 16:05	1
2-Fluorobiphenyl	46		25 - 119				06/01/14 17:20	06/03/14 16:05	1
2,4,6-Tribromophenol	67		35 - 137				06/01/14 17:20	06/03/14 16:05	1
Terphenyl-d14	56		36 - 134				06/01/14 17:20	06/03/14 16:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Arsenic	8.4		0.63	0.13	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Barium	110		0.63	0.068	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Beryllium	0.69		0.25	0.051	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Boron	4.4		3.2	0.63	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Cadmium	0.53		0.13	0.016	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Calcium	14000		13	3.4	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Chromium	18		0.63	0.073	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Cobalt	8.8		0.32	0.063	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Copper	19		0.63	0.13	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Iron	20000		13	5.2	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Lead	25		0.32	0.094	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Magnesium	10000	B	6.3	1.3	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Manganese	620		0.63	0.13	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Nickel	18		0.63	0.13	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Potassium	1400		32	1.9	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Selenium	1.0		0.63	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Sodium	970		63	8.5	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Thallium	1.3		0.63	0.27	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Vanadium	32		0.32	0.047	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1
Zinc	66		1.3	0.26	mg/Kg	☼	05/29/14 09:57	06/02/14 20:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.33		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 20:44	1
Manganese	7.6		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B07

Lab Sample ID: 500-77374-16

Date Collected: 05/20/14 12:40

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 07:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 07:56	1
Boron	0.70	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 07:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 07:56	1
Chromium	0.046		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:56	1
Cobalt	0.013	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:56	1
Iron	48		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 07:56	1
Lead	0.034		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 07:56	1
Manganese	0.36		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:56	1
Nickel	0.043		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:56	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 07:56	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 07:56	1
Zinc	0.15	B	0.10	0.020	mg/L		05/29/14 12:00	06/02/14 19:15	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		05/29/14 12:00	05/30/14 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 12:22	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	0.044		0.018	0.0072	mg/Kg	✱	05/23/14 15:00	05/27/14 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40		0.200	0.200	SU			05/27/14 13:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B08

Lab Sample ID: 500-77374-17

Date Collected: 05/20/14 12:55

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0049	0.0021	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
2-Butanone (MEK)	0.0036	J	0.0049	0.0018	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Dibromochloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/21/14 17:20	05/23/14 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	05/21/14 17:20	05/23/14 20:29	1
Dibromofluoromethane	106		75 - 120	05/21/14 17:20	05/23/14 20:29	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/21/14 17:20	05/23/14 20:29	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/23/14 20:29	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	☼	06/01/14 17:20	06/03/14 16:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1

TestAmerica Chicago

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Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B08

Lab Sample ID: 500-77374-17

Date Collected: 05/20/14 12:55

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 78.1

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	☼	06/01/14 17:20	06/03/14 16:26	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1

TestAmerica Chicago

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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	☼	06/01/14 17:20	06/03/14 16:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	06/01/14 17:20	06/03/14 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	40		25 - 110	06/01/14 17:20	06/03/14 16:26	1
Phenol-d5	46		31 - 110	06/01/14 17:20	06/03/14 16:26	1
Nitrobenzene-d5	36		25 - 115	06/01/14 17:20	06/03/14 16:26	1
2-Fluorobiphenyl	38		25 - 119	06/01/14 17:20	06/03/14 16:26	1
2,4,6-Tribromophenol	40		35 - 137	06/01/14 17:20	06/03/14 16:26	1
Terphenyl-d14	47		36 - 134	06/01/14 17:20	06/03/14 16:26	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	☼	05/29/14 09:57	06/02/14 20:30	1
Arsenic	7.3		0.59	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Barium	87		0.59	0.063	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Beryllium	0.57		0.24	0.047	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Boron	4.1		3.0	0.59	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Cadmium	0.41		0.12	0.015	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Calcium	38000		12	3.2	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Chromium	15		0.59	0.069	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Cobalt	6.7		0.30	0.059	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Copper	15		0.59	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Iron	16000		12	4.9	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Lead	10		0.30	0.088	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Magnesium	25000	B	5.9	1.2	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Manganese	590		0.59	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Nickel	14		0.59	0.12	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Potassium	1200		30	1.8	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Selenium	0.65		0.59	0.21	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Sodium	1900		59	7.9	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Thallium	1.0		0.59	0.25	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Vanadium	27		0.30	0.044	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1
Zinc	36		1.2	0.24	mg/Kg	☼	05/29/14 09:57	06/02/14 20:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.20	0.20	mg/L		06/06/14 08:15	06/06/14 20:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/06/14 08:15	06/06/14 20:49	1
Manganese	8.9		0.025	0.010	mg/L		06/06/14 08:15	06/06/14 20:49	1

TestAmerica Chicago

Client Sample Results

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Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B08

Lab Sample ID: 500-77374-17

Date Collected: 05/20/14 12:55

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		05/29/14 12:00	05/31/14 08:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 08:02	1
Boron	1.0	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 08:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/29/14 12:00	05/31/14 08:02	1
Chromium	0.051		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:02	1
Cobalt	0.017	J	0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:02	1
Iron	50		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 08:02	1
Lead	0.026		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 08:02	1
Manganese	1.4		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:02	1
Nickel	0.048		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:02	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 08:02	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:02	1
Zinc	0.21	B	0.10	0.020	mg/L		05/29/14 12:00	06/02/14 19:19	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		05/29/14 12:00	05/30/14 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 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	0.025		0.021	0.0081	mg/Kg	✱	05/23/14 15:00	05/27/14 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.59		0.200	0.200	SU			05/27/14 13:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B09

Lab Sample ID: 500-77374-18

Date Collected: 05/20/14 13:05

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0037		0.0037	0.0016	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Benzene	<0.0037		0.0037	0.00051	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Bromodichloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Bromoform	<0.0037		0.0037	0.00085	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Carbon disulfide	<0.0037		0.0037	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Carbon tetrachloride	<0.0037		0.0037	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Chlorobenzene	<0.0037		0.0037	0.00038	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Chloroethane	<0.0037		0.0037	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Chloroform	<0.0037		0.0037	0.00043	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Chloromethane	<0.0037		0.0037	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00052	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00049	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Dibromochloromethane	<0.0037		0.0037	0.00065	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
1,1-Dichloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
1,1-Dichloroethene	<0.0037		0.0037	0.00060	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
1,2-Dichloropropane	<0.0037		0.0037	0.00056	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00049	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Ethylbenzene	<0.0037		0.0037	0.00075	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Methylene Chloride	<0.0037		0.0037	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00097	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Styrene	<0.0037		0.0037	0.00049	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
1,1,1,2-Tetrachloroethane	<0.0037		0.0037	0.00075	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Tetrachloroethene	<0.0037		0.0037	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00051	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Trichloroethene	<0.0037		0.0037	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Vinyl acetate	<0.0037		0.0037	0.00058	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Vinyl chloride	<0.0037		0.0037	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1
Xylenes, Total	<0.0074		0.0074	0.00034	mg/Kg	☼	05/21/14 17:20	05/24/14 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	05/21/14 17:20	05/24/14 00:21	1
Dibromofluoromethane	104		75 - 120	05/21/14 17:20	05/24/14 00:21	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	05/21/14 17:20	05/24/14 00:21	1
Toluene-d8 (Surr)	100		75 - 122	05/21/14 17:20	05/24/14 00:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B09

Lab Sample ID: 500-77374-18

Date Collected: 05/20/14 13:05

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Phenanthrene	0.015	J	0.037	0.0052	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Fluoranthene	0.040		0.037	0.0069	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Pyrene	0.038		0.037	0.0074	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Benzo[a]anthracene	0.015	J	0.037	0.0050	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B09

Lab Sample ID: 500-77374-18

Date Collected: 05/20/14 13:05

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.037	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Benzo[b]fluoranthene	0.038		0.037	0.0080	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Benzo[k]fluoranthene	0.017	J	0.037	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Benzo[a]pyrene	0.024	J	0.037	0.0072	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.037	0.0097	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110				06/01/14 17:20	06/03/14 22:37	1
Phenol-d5	57		31 - 110				06/01/14 17:20	06/03/14 22:37	1
Nitrobenzene-d5	43		25 - 115				06/01/14 17:20	06/03/14 22:37	1
2-Fluorobiphenyl	54		25 - 119				06/01/14 17:20	06/03/14 22:37	1
2,4,6-Tribromophenol	71		35 - 137				06/01/14 17:20	06/03/14 22:37	1
Terphenyl-d14	64		36 - 134				06/01/14 17:20	06/03/14 22:37	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	☼	05/29/14 09:57	06/02/14 20:36	1
Arsenic	4.2		0.55	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Barium	28		0.55	0.058	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Beryllium	0.23		0.22	0.044	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Boron	6.7		2.7	0.55	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Cadmium	0.32		0.11	0.014	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Calcium	120000		110	30	mg/Kg	☼	05/29/14 09:57	06/03/14 12:47	10
Chromium	7.8		0.55	0.063	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Cobalt	3.7		0.27	0.055	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Copper	10		0.55	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Iron	8900		11	4.5	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Lead	4.8		0.27	0.081	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Magnesium	52000	B	5.5	1.1	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Manganese	330		0.55	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Nickel	8.3		0.55	0.11	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Potassium	940		27	1.6	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Silver	0.025	J B	0.27	0.020	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Sodium	1200		55	7.3	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Thallium	0.66		0.55	0.23	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Vanadium	11		0.27	0.040	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	1
Zinc	23		1.1	0.22	mg/Kg	☼	05/29/14 09:57	06/02/14 20:36	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		05/29/14 12:00	05/31/14 08:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/29/14 12:00	05/31/14 08:08	1
Boron	0.71	B	0.20	0.050	mg/L		05/29/14 12:00	05/31/14 08:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Client Sample ID: 2819-46-B09

Lab Sample ID: 500-77374-18

Date Collected: 05/20/14 13:05

Matrix: Solid

Date Received: 05/21/14 12:20

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		05/29/14 12:00	05/31/14 08:08	1
Chromium	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:08	1
Cobalt	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:08	1
Iron	<0.20		0.20	0.20	mg/L		05/29/14 12:00	05/31/14 08:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/29/14 12:00	05/31/14 08:08	1
Manganese	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:08	1
Nickel	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:08	1
Selenium	<0.050		0.050	0.010	mg/L		05/29/14 12:00	05/31/14 08:08	1
Silver	<0.025		0.025	0.010	mg/L		05/29/14 12:00	05/31/14 08:08	1
Zinc	0.035	J B	0.10	0.020	mg/L		05/29/14 12:00	06/02/14 19:23	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		05/29/14 12:00	05/30/14 17:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/29/14 12:00	05/30/14 17:47	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		05/30/14 14:45	06/02/14 12:26	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	0.0086	J	0.016	0.0064	mg/Kg	☆	05/23/14 15:00	05/27/14 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			05/27/14 13:41	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-3

Qualifiers

GC/MS 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.

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.

Glossary

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



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 573 (US 30) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
US 30 at IL 47, IL 47 at Cross St., & IL 47 at Galena Boulevard

City: Sugar Grove State: IL Zip Code: 60554

County: Kane Township: Sugar Grove

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

Latitude: 41.76517 Longitude: -88.45750
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 0890853002

IEPA Site Number(s), if assigned: _____ BOL: 0890853003 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: FAP 573 (US 30)

Latitude: 41.76517 Longitude: -88.45750

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 2819-47-B08, 2819-48-B01 AND 2819-48-B02 WERE SAMPLED ADJACENT TO ISGS SITE 2819-51. SEE FIGURE 10 AND TABLE 3v OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID NUMBERS: 500-77374-4 AND 500-77374-5

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: IDOT Bureau of Design and Environment

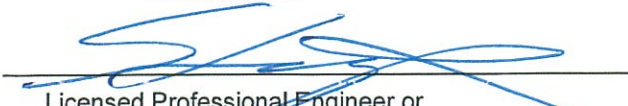
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

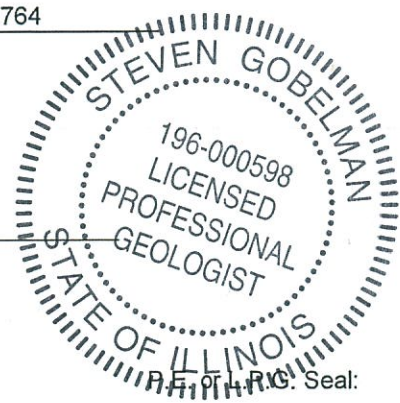
Phone: 217.785.4246

Steven Gobelman

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/24/14
 Date:



Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

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

The laboratory report for site soils follows this summary table.

ISGS Site 2819-51

IDOT ROW

Sample ID	2819-47-B08	2819-48-B01	2819-48-B02	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-2	0-2	0-2						
Sample Date	5/20/2014	5/20/2014	5/20/2014						
PID	0	0	0						
Sample pH	8.07	7.08	7.75						
Matrix	Soil	Soil	Soil	No Contaminants of Concern Noted.					

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-77374-4
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson



Authorized for release by:
6/11/2014 10:18:37 AM

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

LINKS

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B08

Lab Sample ID: 500-77374-27

Date Collected: 05/20/14 13:50

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.7

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	☼	05/21/14 17:20	05/24/14 03:59	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	05/21/14 17:20	05/24/14 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/21/14 17:20	05/24/14 03:59	1
Dibromofluoromethane	104		75 - 120	05/21/14 17:20	05/24/14 03:59	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	05/21/14 17:20	05/24/14 03:59	1
Toluene-d8 (Surr)	101		75 - 122	05/21/14 17:20	05/24/14 03:59	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	☼	06/01/14 17:20	06/03/14 18:52	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B08

Lab Sample ID: 500-77374-27

Date Collected: 05/20/14 13:50

Matrix: Solid

Date Received: 05/21/14 12:20

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	<0.21		0.21	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B08

Lab Sample ID: 500-77374-27

Date Collected: 05/20/14 13:50

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110				06/01/14 17:20	06/03/14 18:52	1
Phenol-d5	66		31 - 110				06/01/14 17:20	06/03/14 18:52	1
Nitrobenzene-d5	55		25 - 115				06/01/14 17:20	06/03/14 18:52	1
2-Fluorobiphenyl	55		25 - 119				06/01/14 17:20	06/03/14 18:52	1
2,4,6-Tribromophenol	66		35 - 137				06/01/14 17:20	06/03/14 18:52	1
Terphenyl-d14	62		36 - 134				06/01/14 17:20	06/03/14 18:52	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	☼	05/29/14 11:20	05/30/14 21:41	1
Arsenic	8.0		0.60	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Barium	100		0.60	0.065	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Beryllium	0.58		0.24	0.048	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Boron	1.7 J		3.0	0.60	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Cadmium	0.20		0.12	0.015	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Calcium	13000 B		12	3.3	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Chromium	15		0.60	0.070	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Cobalt	9.2		0.30	0.060	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Copper	16		0.60	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Iron	18000		12	5.0	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Lead	11 B		0.30	0.090	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Magnesium	9500		6.0	1.2	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Manganese	630 B		0.60	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Nickel	16		0.60	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Potassium	630		30	1.8	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Selenium	0.84		0.60	0.21	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Sodium	1100		60	8.1	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Thallium	1.3		0.60	0.25	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Vanadium	25		0.30	0.045	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1
Zinc	37		1.2	0.24	mg/Kg	☼	05/29/14 11:20	05/30/14 21:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19 J		0.50	0.050	mg/L		05/30/14 08:45	05/30/14 19:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/14 08:45	05/30/14 19:56	1
Boron	0.65		0.10	0.050	mg/L		05/30/14 08:45	05/30/14 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

Client Sample ID: 2819-47-B08

Lab Sample ID: 500-77374-27

Date Collected: 05/20/14 13:50

Matrix: Solid

Date Received: 05/21/14 12:20

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		05/30/14 08:45	05/30/14 19:56	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:56	1
Cobalt	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:56	1
Iron	0.81		0.20	0.20	mg/L		05/30/14 08:45	05/30/14 19:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/30/14 08:45	05/30/14 19:56	1
Manganese	0.044		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:56	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:56	1
Selenium	<0.050		0.050	0.010	mg/L		05/30/14 08:45	05/30/14 19:56	1
Silver	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 19:56	1
Zinc	0.047	J	0.10	0.020	mg/L		05/30/14 08:45	05/30/14 19:56	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		05/30/14 08:45	05/30/14 18:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/14 08:45	05/30/14 18:38	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		05/30/14 14:45	06/02/14 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.021	0.0081	mg/Kg	☆	05/23/14 15:00	05/27/14 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.07		0.200	0.200	SU			05/27/14 14:04	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-4

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.
B	Compound was found in the blank and sample.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>US30 Sugar Grove Kane Co</u>	COC No.: <u>1</u> of <u>1</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200	Project No.: <u>IDOT 2013-074</u>	Lab Job No.: <u>500-77374</u>
Contact: Colleen Grey email: cgrey@andrews-eng.com	Contact: Dick Wright email: richard.wright@testamericainc.com	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:
Special Instructions:		Sampler: <u>CF/CM</u>	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	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization				
19	2819-47-B01	5/20	3:20	S	X	X					X	X	X	X						0-2
20	2819-47-B02		3:15	S	X	X					X	X	X	X						
21	2819-47-B03		3:00	S	X	X					X	X	X	X						
22	2819-47-B04		2:50	S	X	X					X	X	X	X						
23	2819-47-B05		2:40	S	X	X					X	X	X	X						
24	2819-47-B06		2:25	S	X	X					X	X	X	X						
25	2819-47-B07		2:10	S	X	X					X	X	X	X						
26	2819-47-B07DUP		2:15	S	X	X					X	X	X	X						
27	2819-47-B08		1:50	S	X	X					X	X	X	X						
Relinquished by: <u>[Signature]</u>					Date/Time: <u>5/20/14 4:00</u>	Received by: <u>[Signature]</u>										Date/Time: <u>5/20/14 1200</u>				
Relinquished by: <u>[Signature]</u>					Date/Time: <u>5/20</u>	Received by: <u>[Signature]</u>										Date/Time: <u>5/21/14 1200</u>				
Relinquished by: <u>[Signature]</u>					Date/Time: <u>5/21</u>	Received by: <u>[Signature]</u>										Date/Time: <u>5/21/14 1200</u>				

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: 500-77374-5
Client Project/Site: IDOT - US 30 - WO 074

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

Attn: Mike Nelson



Authorized for release by:
6/11/2014 10:19:50 AM

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

LINKS

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www.testamericainc.com

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

Client Sample ID: 2819-48-B01

Lab Sample ID: 500-77374-28

Date Collected: 05/20/14 13:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.027		0.0049	0.0021	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
2-Butanone (MEK)	0.0054		0.0049	0.0018	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
1,1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/21/14 17:20	05/24/14 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	05/21/14 17:20	05/24/14 04:23	1
Dibromofluoromethane	108		75 - 120	05/21/14 17:20	05/24/14 04:23	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/21/14 17:20	05/24/14 04:23	1
Toluene-d8 (Surr)	99		75 - 122	05/21/14 17:20	05/24/14 04:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

Client Sample ID: 2819-48-B01

Lab Sample ID: 500-77374-28

Date Collected: 05/20/14 13:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 77.7

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	☼	06/01/14 17:20	06/03/14 19:12	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

Client Sample ID: 2819-48-B01

Lab Sample ID: 500-77374-28

Date Collected: 05/20/14 13:25

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 77.7

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	☼	06/01/14 17:20	06/03/14 19:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	06/01/14 17:20	06/03/14 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		25 - 110				06/01/14 17:20	06/03/14 19:12	1
Phenol-d5	53		31 - 110				06/01/14 17:20	06/03/14 19:12	1
Nitrobenzene-d5	42		25 - 115				06/01/14 17:20	06/03/14 19:12	1
2-Fluorobiphenyl	42		25 - 119				06/01/14 17:20	06/03/14 19:12	1
2,4,6-Tribromophenol	54		35 - 137				06/01/14 17:20	06/03/14 19:12	1
Terphenyl-d14	58		36 - 134				06/01/14 17:20	06/03/14 19:12	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	☼	05/29/14 11:20	05/30/14 21:47	1
Arsenic	7.5		0.61	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Barium	130		0.61	0.065	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Beryllium	0.67		0.24	0.049	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Boron	1.1 J		3.0	0.61	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Cadmium	0.17		0.12	0.015	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Calcium	2300		12	3.3	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Chromium	16		0.61	0.070	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Cobalt	7.6		0.30	0.061	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Copper	17		0.61	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Iron	19000		12	5.0	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Lead	10		0.30	0.091	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Magnesium	3100		6.1	1.3	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Manganese	630		0.61	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Nickel	20		0.61	0.12	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Potassium	650		30	1.8	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Selenium	0.89		0.61	0.22	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Silver	0.024 J		0.30	0.022	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Sodium	700		61	8.1	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Thallium	1.3		0.61	0.26	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Vanadium	23		0.30	0.045	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1
Zinc	43		1.2	0.25	mg/Kg	☼	05/29/14 11:20	05/30/14 21:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.2		0.025	0.010	mg/L		06/06/14 09:00	06/06/14 17:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

Client Sample ID: 2819-48-B01

Lab Sample ID: 500-77374-28

Date Collected: 05/20/14 13:25

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		05/30/14 08:45	05/30/14 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/14 08:45	05/30/14 20:00	1
Boron	0.59		0.10	0.050	mg/L		05/30/14 08:45	05/30/14 20:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/30/14 08:45	05/30/14 20:00	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:00	1
Cobalt	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:00	1
Iron	0.77		0.20	0.20	mg/L		05/30/14 08:45	05/30/14 20:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/30/14 08:45	05/30/14 20:00	1
Manganese	0.33		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:00	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:00	1
Selenium	<0.050		0.050	0.010	mg/L		05/30/14 08:45	05/30/14 20:00	1
Silver	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:00	1
Zinc	0.042	J	0.10	0.020	mg/L		05/30/14 08:45	05/30/14 20:00	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		05/30/14 08:45	05/30/14 18:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/14 08:45	05/30/14 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00020	0.00010	mg/L		05/30/14 14:45	06/02/14 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.020	0.0079	mg/Kg	✱	05/23/14 15:00	05/27/14 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.08		0.200	0.200	SU			05/27/14 14:06	1

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

Client Sample ID: 2819-48-B02

Lab Sample ID: 500-77374-29

Date Collected: 05/20/14 13:30

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0043	0.0019	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
2-Butanone (MEK)	0.0032	J	0.0043	0.0016	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	05/21/14 17:20	05/24/14 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	05/21/14 17:20	05/24/14 04:47	1
Dibromofluoromethane	107		75 - 120	05/21/14 17:20	05/24/14 04:47	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/21/14 17:20	05/24/14 04:47	1
Toluene-d8 (Surr)	102		75 - 122	05/21/14 17:20	05/24/14 04:47	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	☼	06/02/14 07:04	06/05/14 17:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

Client Sample ID: 2819-48-B02

Lab Sample ID: 500-77374-29

Date Collected: 05/20/14 13:30

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 81.5

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	*	06/02/14 07:04	06/05/14 17:46	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Carbazole	<0.20		0.20	0.10	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Fluoranthene	0.074		0.039	0.0074	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Pyrene	0.066		0.039	0.0079	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	*	06/02/14 07:04	06/05/14 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

Client Sample ID: 2819-48-B02

Lab Sample ID: 500-77374-29

Date Collected: 05/20/14 13:30

Matrix: Solid

Date Received: 05/21/14 12:20

Percent Solids: 81.5

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	☼	06/02/14 07:04	06/05/14 17:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	06/02/14 07:04	06/05/14 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110				06/02/14 07:04	06/05/14 17:46	1
Phenol-d5	38		31 - 110				06/02/14 07:04	06/05/14 17:46	1
Nitrobenzene-d5	34		25 - 115				06/02/14 07:04	06/05/14 17:46	1
2-Fluorobiphenyl	43		25 - 119				06/02/14 07:04	06/05/14 17:46	1
2,4,6-Tribromophenol	55		35 - 137				06/02/14 07:04	06/05/14 17:46	1
Terphenyl-d14	48		36 - 134				06/02/14 07:04	06/05/14 17:46	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	☼	05/29/14 11:20	05/30/14 21:53	1
Arsenic	6.0		0.57	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Barium	85		0.57	0.061	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Beryllium	0.44		0.23	0.046	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Boron	3.0		2.9	0.57	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Cadmium	0.32		0.11	0.015	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Calcium	77000	B	110	31	mg/Kg	☼	05/29/14 11:20	06/02/14 22:02	10
Chromium	11		0.57	0.066	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Cobalt	5.3		0.29	0.057	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Copper	14		0.57	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Iron	14000		11	4.7	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Lead	17		0.29	0.085	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Magnesium	35000		5.7	1.2	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Manganese	560		0.57	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Nickel	11		0.57	0.11	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Potassium	920		29	1.7	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Selenium	0.23	J	0.57	0.20	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Sodium	1100		57	7.7	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Thallium	0.97		0.57	0.24	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Vanadium	19		0.29	0.042	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	1
Zinc	43		1.1	0.23	mg/Kg	☼	05/29/14 11:20	05/30/14 21:53	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		06/06/14 09:00	06/06/14 17:11	1
Manganese	2.5		0.025	0.010	mg/L		06/06/14 09:00	06/06/14 17:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

Client Sample ID: 2819-48-B02

Lab Sample ID: 500-77374-29

Date Collected: 05/20/14 13:30

Matrix: Solid

Date Received: 05/21/14 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		05/30/14 08:45	05/30/14 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/14 08:45	05/30/14 20:04	1
Boron	0.47		0.10	0.050	mg/L		05/30/14 08:45	05/30/14 20:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/30/14 08:45	05/30/14 20:04	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:04	1
Cobalt	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:04	1
Iron	1.6		0.20	0.20	mg/L		05/30/14 08:45	05/30/14 20:04	1
Lead	0.031		0.0075	0.0075	mg/L		05/30/14 08:45	05/30/14 20:04	1
Manganese	0.19		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:04	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:04	1
Selenium	<0.050		0.050	0.010	mg/L		05/30/14 08:45	05/30/14 20:04	1
Silver	<0.025		0.025	0.010	mg/L		05/30/14 08:45	05/30/14 20:04	1
Zinc	0.084	J	0.10	0.020	mg/L		05/30/14 08:45	05/30/14 20:04	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		05/30/14 08:45	05/30/14 18:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/14 08:45	05/30/14 18:46	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		05/30/14 14:45	06/02/14 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0076	mg/Kg	✱	05/23/14 15:00	05/27/14 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75		0.200	0.200	SU			05/27/14 14:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 30 - WO 074

TestAmerica Job ID: 500-77374-5

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.

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.

Glossary

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

