



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

5455 Wolf Road

City: Western Springs State: IL Zip Code: 60558

County: Cook Township: Lyons

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

Latitude: 41.78995 Longitude: - 87.89743
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 63

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-16-B01 WAS SAMPLED ADJACENT TO SITE 2955V-16. SEE TABLE 3a AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176584-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-16
Petty & Dragstrem Orthodontics

Sample ID	2955V-16-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	1/20/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	7.4					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176584-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/6/2020 4:19:32 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
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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176584-1

Client Sample ID: 2955V-16-B01

Lab Sample ID: 500-176584-1

Date Collected: 01/20/20 14:00

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Acetone	0.032		0.020	0.0085	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	01/20/20 17:45	01/30/20 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/20/20 17:45	01/30/20 15:11	1
4-Bromofluorobenzene (Surr)	99		75 - 131	01/20/20 17:45	01/30/20 15:11	1
Dibromofluoromethane	101		75 - 126	01/20/20 17:45	01/30/20 15:11	1
Toluene-d8 (Surr)	91		75 - 124	01/20/20 17:45	01/30/20 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2,2'-oxybis[1-chloropropane]	<0.21	F1	0.21	0.049	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176584-1

Client Sample ID: 2955V-16-B01

Lab Sample ID: 500-176584-1

Date Collected: 01/20/20 14:00

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2,4-Dinitrophenol	<0.85		0.85	0.75	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2-Methylnaphthalene	<0.085		0.085	0.0078	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
3,3'-Dichlorobenzidine	<0.21	F1	0.21	0.059	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
4-Nitrophenol	<0.85	F1 *	0.85	0.40	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Anthracene	0.045		0.042	0.0071	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Bis(2-chloroethyl)ether	<0.21	F1	0.21	0.064	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Bis(2-ethylhexyl) phthalate	0.084	J	0.21	0.077	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Carbazole	<0.21	F1	0.21	0.11	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Di-n-butyl phthalate	0.084	J	0.21	0.065	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Di-n-octyl phthalate	0.17	J	0.21	0.069	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176584-1

Client Sample ID: 2955V-16-B01

Lab Sample ID: 500-176584-1

Date Collected: 01/20/20 14:00

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Naphthalene	0.033	J	0.042	0.0065	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Phenanthrene	0.013	J	0.042	0.0059	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Pyrene	0.031	J	0.042	0.0084	mg/Kg	☼	01/29/20 18:13	01/30/20 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143				01/29/20 18:13	01/30/20 21:57	1
2-Fluorobiphenyl	81		43 - 145				01/29/20 18:13	01/30/20 21:57	1
2-Fluorophenol	97		31 - 166				01/29/20 18:13	01/30/20 21:57	1
Nitrobenzene-d5	93		37 - 147				01/29/20 18:13	01/30/20 21:57	1
Phenol-d5	85		30 - 153				01/29/20 18:13	01/30/20 21:57	1
Terphenyl-d14	122		42 - 157				01/29/20 18:13	01/30/20 21:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.24	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Arsenic	10		0.61	0.21	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Barium	100		0.61	0.070	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Beryllium	1.4		0.25	0.057	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Boron	13	B	3.1	0.29	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Cadmium	0.11	J B	0.12	0.022	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Calcium	2600		12	2.1	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Chromium	31		0.61	0.30	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Cobalt	20		0.31	0.081	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Copper	30		0.61	0.17	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Iron	30000		12	6.4	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Lead	20		0.31	0.14	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Magnesium	6100		6.1	3.0	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Manganese	390		0.61	0.089	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Nickel	48		0.61	0.18	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Potassium	3100		31	11	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Selenium	0.43	J	0.61	0.36	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Silver	4.2		0.31	0.079	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Sodium	300		61	9.1	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Thallium	<0.61		0.61	0.31	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Vanadium	41		0.31	0.073	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1
Zinc	67		1.2	0.54	mg/Kg	☼	01/25/20 16:41	01/29/20 01:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 11:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 11:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:00	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 11:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176584-1

Client Sample ID: 2955V-16-B01

Lab Sample ID: 500-176584-1

Date Collected: 01/20/20 14:00

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.9

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		02/02/20 16:06	02/03/20 11:00	1
Manganese	0.047		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:00	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.067		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 12:21	1
Barium	0.69		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 12:21	1
Beryllium	0.0082		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 12:21	1
Boron	0.15		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 12:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 12:21	1
Calcium	17		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:21	1
Chromium	0.19		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:21	1
Cobalt	0.030		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:21	1
Iron	180		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 12:21	1
Lead	0.046		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 12:21	1
Manganese	0.52		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:21	1
Nickel	0.20		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:21	1
Potassium	26		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 12:21	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:21	1
Zinc	0.29	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 12:21	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		02/02/20 16:06	02/04/20 18:33	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		02/02/20 15:59	02/03/20 13:43	1
Thallium	0.0048		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00041		0.00020	0.00020	mg/L		02/05/20 10:20	02/06/20 10:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068	B	0.021	0.0069	mg/Kg	☼	01/31/20 14:45	02/04/20 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.27	mg/Kg	☼	01/30/20 13:10	01/30/20 15:17	1
pH	7.4		0.2	0.2	SU			02/03/20 15:31	1



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					 <small>500-176584 COC</small>					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>ACT-35A</u> Project No.: <u>PTB/WO-184-006/33A</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 Josh Hey Sampler:					COC No.: <u>1</u> of <u>1</u> Lab Job No.: 500-176584 Sample Temp: 4.6 48qt				
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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.					ANALYSES													Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other						
Lab ID	Sample ID		Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization						Comments	
1	2955V-16-1301		1/20	1400	S	X	X					X	X	X	X	X								
Relinquished by: <i>Mutec</i>					Date/Time 1/20 1435					Received by: <i>Stephanie Hernandez TA</i>					Date/Time 1/20/20 1435									
Relinquished by:					Date/Time					Received by:					Date/Time									
Relinquished by:					Date/Time					Received by:					Date/Time									





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

5328-5420 Johnson Av, 501-621 54th Pl, 5417-5431 Howard Av, 1600-1808 55th St, 5428 Laurel Av, 1609-1704 54th Pl, 5350 Gilb

City: Western Springs/La Grange State: IL Zip Code: 60558 & 60525

County: Cook Township: Lyons

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

Latitude: 41.79006 Longitude: -87.89331
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 700

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: 847-705-4122
Contact: Irma Romiti-Johnson
Email, if available: Irma.Romiti-Johnson@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: 847-705-4122
Contact: Irma Romiti-Johnson
Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-17-B01, -B02, -B03, -B04, -B06, -B07, -B08, -B09, -B10, -B11, -B12, -B13 AND -B14 WERE SAMPLED ADJACENT TO SITE 2955V-17. SEE TABLE 3b AND FIGURES 4 AND 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176582-1.

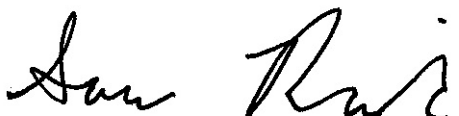
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-17
Residences and Vacant Lot

Sample ID	2955V-17-B01	2955V-17-B02	2955V-17-B03	2955V-17-B04	2955V-17-B06	Maximum Allowable Concentration					
Sample Depth (ft)	0-2	0-2	0-2	0-2	0-2	¹ Most Stringent ² Outside a Populated Area ³ Within a Populated non-Metropolitan Statistical Area ⁴ Within Chicago Corporate Limits ⁵ Within a Metropolitan Statistical Area					
Sample Date	1/20/2020	1/20/2020	1/20/2020	1/20/2020	1/20/2020						
PID	0	0	0	0	0						
Sample pH	8.2	7.2	8.8	8.6	8.3						
Matrix	Soil	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	ND	ND	ND	ND	ND	0.09	0.09	0.98	1.3	2.1	

Sample ID	2955V-17-B07	2955V-17-B08	2955V-17-B09	2955V-17-B09 DUP	2955V-17-B10	Maximum Allowable Concentration					
Sample Depth (ft)	0-2	0-2	0-2	0-2	0-2	¹ Most Stringent ² Outside a Populated Area ³ Within a Populated non-Metropolitan Statistical Area ⁴ Within Chicago Corporate Limits ⁵ Within a Metropolitan Statistical Area					
Sample Date	1/20/2020	1/20/2020	1/20/2020	1/20/2020	1/20/2020						
PID	0	0	0	0	0						
Sample pH	8	7.7	8.5	7.9	8.6						
Matrix	Soil	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	ND	ND	0.04	0.058	ND	0.09	0.09	0.98	1.3	2.1	

Sample ID	2955V-17-B11	2955V-17-B12	2955V-17-B13	2955V-17-B14	Maximum Allowable Concentration						
Sample Depth (ft)	0-2	0-2	0-2	0-2	¹ Most Stringent ² Outside a Populated Area ³ Within a Populated non-Metropolitan Statistical Area ⁴ Within Chicago Corporate Limits ⁵ Within a Metropolitan Statistical Area						
Sample Date	1/20/2020	1/20/2020	1/20/2020	1/20/2020							
PID	0	0	0	0							
Sample pH	8.1	8.5	8.8	8.6							
Matrix	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	0.13	1.2	J 0.034	0.046	ND	0.09	0.09	0.98	1.3	2.1	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176582-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/6/2020 4:03:31 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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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B14

Lab Sample ID: 500-176582-1

Date Collected: 01/20/20 11:35

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Chloroethane	<0.0039 *		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00043	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Ethylbenzene	<0.0016		0.0016	0.00074	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	01/20/20 17:45	01/30/20 16:02	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/20/20 17:45	01/30/20 16:02	1
Dibromofluoromethane	88		75 - 126	01/20/20 17:45	01/30/20 16:02	1
Toluene-d8 (Surr)	99		75 - 124	01/20/20 17:45	01/30/20 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2,2'-oxybis[1-chloropropane]	<0.20	F1	0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B14

Lab Sample ID: 500-176582-1

Date Collected: 01/20/20 11:35

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2,4-Dinitrophenol	<0.81	F2	0.81	0.71	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
3,3'-Dichlorobenzidine	<0.20	F1	0.20	0.056	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
3-Nitroaniline	<0.40	F1	0.40	0.13	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
4-Nitrophenol	<0.81	F1	0.81	0.38	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Carbazole	<0.20	F1	0.20	0.10	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Diethyl phthalate	<0.20	F1	0.20	0.068	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Di-n-butyl phthalate	0.076	J	0.20	0.061	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Fluoranthene	0.021	J	0.040	0.0075	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B14

Lab Sample ID: 500-176582-1

Date Collected: 01/20/20 11:35

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
N-Nitrosodiphenylamine	<0.20	F1	0.20	0.048	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Pentachlorophenol	<0.81	F2	0.81	0.65	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Phenanthrene	0.014	J	0.040	0.0056	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Pyrene	0.034	J	0.040	0.0080	mg/Kg	☼	01/29/20 07:38	01/31/20 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		31 - 143				01/29/20 07:38	01/31/20 22:52	1
2-Fluorobiphenyl	72		43 - 145				01/29/20 07:38	01/31/20 22:52	1
2-Fluorophenol	87		31 - 166				01/29/20 07:38	01/31/20 22:52	1
Nitrobenzene-d5	89		37 - 147				01/29/20 07:38	01/31/20 22:52	1
Phenol-d5	69		30 - 153				01/29/20 07:38	01/31/20 22:52	1
Terphenyl-d14	108		42 - 157				01/29/20 07:38	01/31/20 22:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	J	1.2	0.22	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Arsenic	6.1		0.58	0.20	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Barium	62		0.58	0.066	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Beryllium	1.0		0.23	0.054	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Boron	17		2.9	0.27	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Cadmium	0.15		0.12	0.021	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Calcium	57000		120	20	mg/Kg	☼	01/27/20 07:30	01/30/20 16:25	10
Chromium	22		0.58	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Cobalt	13		0.29	0.075	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Copper	26		0.58	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Iron	20000		12	6.0	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Lead	17		0.29	0.13	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Magnesium	22000		5.8	2.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Manganese	290		0.58	0.083	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Nickel	35		0.58	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Potassium	3300		29	10	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Silver	3.6		0.29	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Sodium	540		58	8.5	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Vanadium	29		0.29	0.068	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1
Zinc	55		1.2	0.51	mg/Kg	☼	01/27/20 07:30	01/29/20 21:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 09:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 09:38	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:38	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 09:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B14

Lab Sample ID: 500-176582-1

Date Collected: 01/20/20 11:35

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 82.2

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		02/02/20 16:06	02/03/20 09:38	1
Manganese	0.16		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:38	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.051		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:04	1
Barium	0.53		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:04	1
Beryllium	0.0068		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:04	1
Boron	0.22		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:04	1
Calcium	40		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:04	1
Chromium	0.17		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:04	1
Cobalt	0.032		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:04	1
Iron	140		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:04	1
Lead	0.057		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:04	1
Manganese	0.49		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:04	1
Nickel	0.15		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:04	1
Potassium	33		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:04	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:04	1
Zinc	0.30	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:04	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		02/02/20 16:06	02/04/20 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		02/02/20 15:59	02/03/20 13:06	1
Thallium	0.0061		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.00020	mg/L		02/05/20 10:20	02/06/20 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0070	J	0.019	0.0063	mg/Kg	☼	02/04/20 13:55	02/05/20 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.30	mg/Kg	☼	01/31/20 10:00	01/31/20 13:57	1
pH	8.6		0.2	0.2	SU			02/03/20 14:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B13

Lab Sample ID: 500-176582-2

Date Collected: 01/20/20 11:45

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Chloroethane	<0.0042 *		0.0042	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	01/20/20 17:45	01/30/20 16:28	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/20/20 17:45	01/30/20 16:28	1
Dibromofluoromethane	88		75 - 126	01/20/20 17:45	01/30/20 16:28	1
Toluene-d8 (Surr)	98		75 - 124	01/20/20 17:45	01/30/20 16:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B13

Lab Sample ID: 500-176582-2

Date Collected: 01/20/20 11:45

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Anthracene	0.0075	J	0.037	0.0063	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Benzo[a]anthracene	0.039		0.037	0.0051	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Benzo[a]pyrene	0.046		0.037	0.0073	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Benzo[b]fluoranthene	0.073		0.037	0.0081	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Benzo[g,h,i]perylene	0.042		0.037	0.012	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Benzo[k]fluoranthene	0.025	J	0.037	0.011	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Chrysene	0.057		0.037	0.010	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Dibenz(a,h)anthracene	0.0092	J	0.037	0.0073	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Fluoranthene	0.074		0.037	0.0070	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B13

Lab Sample ID: 500-176582-2

Date Collected: 01/20/20 11:45

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.034	J	0.037	0.0097	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Phenanthrene	0.038		0.037	0.0052	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Pyrene	0.072		0.037	0.0075	mg/Kg	☼	02/03/20 18:06	02/04/20 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	102		31 - 143				02/03/20 18:06	02/04/20 13:27	1
2-Fluorobiphenyl	93		43 - 145				02/03/20 18:06	02/04/20 13:27	1
2-Fluorophenol	96		31 - 166				02/03/20 18:06	02/04/20 13:27	1
Nitrobenzene-d5	87		37 - 147				02/03/20 18:06	02/04/20 13:27	1
Phenol-d5	94		30 - 153				02/03/20 18:06	02/04/20 13:27	1
Terphenyl-d14	133		42 - 157				02/03/20 18:06	02/04/20 13:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.1	0.22	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Arsenic	9.4		0.56	0.19	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Barium	53		0.56	0.064	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Beryllium	0.92		0.22	0.052	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Boron	16		2.8	0.26	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Cadmium	0.33		0.11	0.020	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Calcium	49000		110	19	mg/Kg	☼	01/27/20 07:30	01/30/20 16:29	10
Chromium	19		0.56	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Cobalt	18		0.28	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Copper	31		0.56	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Iron	20000		11	5.8	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Lead	86		0.28	0.13	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Magnesium	20000		5.6	2.8	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Manganese	420		0.56	0.081	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Nickel	40		0.56	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Potassium	3000		28	9.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Selenium	0.36	J	0.56	0.33	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Silver	3.1		0.28	0.072	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Sodium	890		56	8.3	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Vanadium	26		0.28	0.066	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1
Zinc	76		1.1	0.49	mg/Kg	☼	01/27/20 07:30	01/29/20 21:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 09:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 09:43	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:43	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 09:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B13

Lab Sample ID: 500-176582-2

Date Collected: 01/20/20 11:45

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0080		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 09:43	1
Manganese	0.17		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:43	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.080		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:09	1
Barium	0.60		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:09	1
Beryllium	0.0078		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:09	1
Boron	0.21		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:09	1
Calcium	61		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:09	1
Chromium	0.19		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:09	1
Cobalt	0.046		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:09	1
Iron	190		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:09	1
Lead	0.19		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:09	1
Manganese	0.77		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:09	1
Nickel	0.20		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:09	1
Potassium	34		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:09	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:09	1
Zinc	0.53		0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:09	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		02/02/20 16:06	02/04/20 17:58	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		02/02/20 15:59	02/03/20 13:08	1
Thallium	0.0054		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00035		0.00033	0.00033	mg/L		02/05/20 10:20	02/06/20 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0058	mg/Kg	☼	02/04/20 13:55	02/05/20 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	01/31/20 10:00	01/31/20 13:59	1
pH	8.8		0.2	0.2	SU			02/03/20 14:17	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B12

Lab Sample ID: 500-176582-3

Date Collected: 01/20/20 11:55

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Chloroethane	<0.0039 *		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	01/20/20 17:45	01/30/20 16:53	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/20/20 17:45	01/30/20 16:53	1
Dibromofluoromethane	88		75 - 126	01/20/20 17:45	01/30/20 16:53	1
Toluene-d8 (Surr)	100		75 - 124	01/20/20 17:45	01/30/20 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B12

Lab Sample ID: 500-176582-3

Date Collected: 01/20/20 11:55

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Benzo[a]anthracene	0.018	J	0.038	0.0051	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Benzo[a]pyrene	0.034	J	0.038	0.0074	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Benzo[b]fluoranthene	0.027	J	0.038	0.0082	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Benzo[g,h,i]perylene	0.015	J	0.038	0.012	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Chrysene	0.025	J	0.038	0.010	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Fluoranthene	0.031	J	0.038	0.0071	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B12

Lab Sample ID: 500-176582-3

Date Collected: 01/20/20 11:55

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.011	J	0.038	0.0099	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Pyrene	0.030	J	0.038	0.0076	mg/Kg	☼	01/29/20 07:38	01/29/20 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		31 - 143				01/29/20 07:38	01/29/20 19:54	1
2-Fluorobiphenyl	86		43 - 145				01/29/20 07:38	01/29/20 19:54	1
2-Fluorophenol	113		31 - 166				01/29/20 07:38	01/29/20 19:54	1
Nitrobenzene-d5	75		37 - 147				01/29/20 07:38	01/29/20 19:54	1
Phenol-d5	87		30 - 153				01/29/20 07:38	01/29/20 19:54	1
Terphenyl-d14	110		42 - 157				01/29/20 07:38	01/29/20 19:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.1	0.22	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Arsenic	9.2		0.57	0.20	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Barium	49		0.57	0.065	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Beryllium	0.96		0.23	0.053	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Boron	16		2.9	0.27	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Cadmium	0.26		0.11	0.021	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Calcium	48000		110	19	mg/Kg	☼	01/27/20 07:30	01/30/20 16:34	10
Chromium	19		0.57	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Cobalt	17		0.29	0.075	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Copper	30		0.57	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Iron	22000		11	5.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Lead	27		0.29	0.13	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Magnesium	19000		5.7	2.8	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Manganese	370		0.57	0.083	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Nickel	41		0.57	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Potassium	3200		29	10	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Selenium	0.44	J	0.57	0.34	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Silver	3.2		0.29	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Sodium	600		57	8.5	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Thallium	0.34	J	0.57	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Vanadium	26		0.29	0.067	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1
Zinc	67		1.1	0.50	mg/Kg	☼	01/27/20 07:30	01/29/20 21:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 09:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 09:48	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:48	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 09:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B12

Lab Sample ID: 500-176582-3

Date Collected: 01/20/20 11:55

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.6

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		02/02/20 16:06	02/03/20 09:48	1
Manganese	0.066		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:48	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.076		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:13	1
Barium	0.42	J	0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:13	1
Beryllium	0.0065		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:13	1
Boron	0.18		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:13	1
Calcium	40		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:13	1
Chromium	0.15		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:13	1
Cobalt	0.039		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:13	1
Iron	170		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:13	1
Lead	0.12		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:13	1
Manganese	0.62		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:13	1
Nickel	0.18		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:13	1
Potassium	30		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:13	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:13	1
Zinc	0.41	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:13	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		02/02/20 16:06	02/04/20 18:00	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		02/02/20 15:59	02/03/20 13:10	1
Thallium	0.0055		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00045		0.00033	0.00033	mg/L		02/05/20 10:20	02/06/20 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0065	mg/Kg	☼	02/04/20 13:55	02/05/20 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.27	mg/Kg	☼	01/31/20 10:00	01/31/20 13:59	1
pH	8.5		0.2	0.2	SU			02/03/20 14:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B11

Lab Sample ID: 500-176582-4

Date Collected: 01/20/20 12:05

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Acetone	0.028		0.017	0.0073	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Chloroethane	<0.0042 *		0.0042	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	01/20/20 17:45	01/30/20 17:18	1
4-Bromofluorobenzene (Surr)	109		75 - 131	01/20/20 17:45	01/30/20 17:18	1
Dibromofluoromethane	92		75 - 126	01/20/20 17:45	01/30/20 17:18	1
Toluene-d8 (Surr)	97		75 - 124	01/20/20 17:45	01/30/20 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B11

Lab Sample ID: 500-176582-4

Date Collected: 01/20/20 12:05

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Acenaphthene	0.011	J	0.040	0.0072	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Anthracene	0.029	J	0.040	0.0067	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Benzo[a]anthracene	0.10		0.040	0.0054	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Benzo[a]pyrene	0.13		0.040	0.0077	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Benzo[b]fluoranthene	0.15		0.040	0.0086	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Benzo[g,h,i]perylene	0.064		0.040	0.013	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Benzo[k]fluoranthene	0.048		0.040	0.012	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Chrysene	0.12		0.040	0.011	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Fluoranthene	0.22		0.040	0.0074	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Fluorene	0.0091	J	0.040	0.0056	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B11

Lab Sample ID: 500-176582-4

Date Collected: 01/20/20 12:05

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.058		0.040	0.010	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Phenanthrene	0.13		0.040	0.0056	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Pyrene	0.19		0.040	0.0080	mg/Kg	☼	01/29/20 07:38	01/29/20 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		31 - 143				01/29/20 07:38	01/29/20 20:24	1
2-Fluorobiphenyl	87		43 - 145				01/29/20 07:38	01/29/20 20:24	1
2-Fluorophenol	123		31 - 166				01/29/20 07:38	01/29/20 20:24	1
Nitrobenzene-d5	75		37 - 147				01/29/20 07:38	01/29/20 20:24	1
Phenol-d5	105		30 - 153				01/29/20 07:38	01/29/20 20:24	1
Terphenyl-d14	130		42 - 157				01/29/20 07:38	01/29/20 20:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.2	0.23	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Arsenic	10		0.60	0.21	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Barium	99		0.60	0.068	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Beryllium	1.1		0.24	0.056	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Boron	11		3.0	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Cadmium	0.25		0.12	0.022	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Calcium	17000		12	2.0	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Chromium	21		0.60	0.30	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Cobalt	19		0.30	0.079	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Copper	25		0.60	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Iron	22000		12	6.2	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Lead	64		0.30	0.14	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Magnesium	12000		6.0	3.0	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Manganese	550		0.60	0.087	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Nickel	32		0.60	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Potassium	2400		30	11	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Silver	3.7		0.30	0.077	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Sodium	510		60	8.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Vanadium	34		0.30	0.071	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	1
Zinc	67		1.2	0.53	mg/Kg	☼	01/27/20 07:30	01/29/20 21:14	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		02/02/20 16:06	02/03/20 09:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:52	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 09:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 09:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B11

Lab Sample ID: 500-176582-4

Date Collected: 01/20/20 12:05

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.36		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.041	J	0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:17	1
Barium	0.46	J	0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:17	1
Beryllium	0.0049		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:17	1
Boron	0.14		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:17	1
Calcium	21		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:17	1
Chromium	0.12		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:17	1
Cobalt	0.020	J	0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:17	1
Iron	110		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:17	1
Lead	0.078		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:17	1
Manganese	0.39		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:17	1
Nickel	0.10		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:17	1
Potassium	20		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:17	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:17	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:17	1
Zinc	0.36	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:17	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		02/02/20 16:06	02/04/20 18:02	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		02/02/20 15:59	02/03/20 13:12	1
Thallium	0.0038		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020	0.00020	mg/L		02/05/20 10:20	02/06/20 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0062	mg/Kg	☼	02/04/20 13:55	02/05/20 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.46		0.46	0.23	mg/Kg	☼	01/31/20 10:00	01/31/20 13:59	1
pH	8.1		0.2	0.2	SU			02/03/20 14:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B10

Lab Sample ID: 500-176582-5

Date Collected: 01/20/20 12:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Chloroethane	<0.0041 *		0.0041	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	01/20/20 17:45	01/30/20 17:44	1
4-Bromofluorobenzene (Surr)	111		75 - 131	01/20/20 17:45	01/30/20 17:44	1
Dibromofluoromethane	89		75 - 126	01/20/20 17:45	01/30/20 17:44	1
Toluene-d8 (Surr)	99		75 - 124	01/20/20 17:45	01/30/20 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B10

Lab Sample ID: 500-176582-5

Date Collected: 01/20/20 12:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B10

Lab Sample ID: 500-176582-5

Date Collected: 01/20/20 12:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Phenanthrene	0.010	J	0.038	0.0053	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Pyrene	0.011	J	0.038	0.0076	mg/Kg	☼	01/29/20 07:38	01/29/20 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		31 - 143				01/29/20 07:38	01/29/20 20:53	1
2-Fluorobiphenyl	91		43 - 145				01/29/20 07:38	01/29/20 20:53	1
2-Fluorophenol	123		31 - 166				01/29/20 07:38	01/29/20 20:53	1
Nitrobenzene-d5	78		37 - 147				01/29/20 07:38	01/29/20 20:53	1
Phenol-d5	99		30 - 153				01/29/20 07:38	01/29/20 20:53	1
Terphenyl-d14	119		42 - 157				01/29/20 07:38	01/29/20 20:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.1	0.21	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Arsenic	8.6		0.54	0.18	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Barium	44		0.54	0.061	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Beryllium	0.96		0.22	0.050	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Boron	17		2.7	0.25	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Cadmium	0.22		0.11	0.019	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Calcium	30000		11	1.8	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Chromium	20		0.54	0.27	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Cobalt	17		0.27	0.070	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Copper	26		0.54	0.15	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Iron	21000		11	5.6	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Lead	17		0.27	0.12	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Magnesium	19000		5.4	2.7	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Manganese	350		0.54	0.078	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Nickel	39		0.54	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Potassium	3500		27	9.5	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Silver	3.3		0.27	0.069	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Sodium	630		54	8.0	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Vanadium	24		0.27	0.063	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1
Zinc	66		1.1	0.47	mg/Kg	☼	01/27/20 07:30	01/29/20 21:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 09:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 09:57	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:57	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 09:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B10

Lab Sample ID: 500-176582-5

Date Collected: 01/20/20 12:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0081		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 09:57	1
Manganese	0.57		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:57	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.099		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:21	1
Barium	0.51		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:21	1
Beryllium	0.0081		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:21	1
Boron	0.22		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:21	1
Calcium	49		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:21	1
Chromium	0.19		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:21	1
Cobalt	0.061		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:21	1
Iron	210		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:21	1
Lead	0.15		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:21	1
Manganese	0.80		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:21	1
Nickel	0.23		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:21	1
Potassium	36		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:21	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:21	1
Zinc	0.65		0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:21	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		02/02/20 16:06	02/04/20 18:04	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		02/02/20 15:59	02/03/20 13:14	1
Thallium	0.0059		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00039		0.00033	0.00033	mg/L		02/05/20 10:20	02/06/20 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	☼	02/04/20 13:55	02/05/20 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.23	mg/Kg	☼	01/31/20 10:00	01/31/20 14:01	1
pH	8.6		0.2	0.2	SU			02/03/20 14:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B09

Lab Sample ID: 500-176582-6

Date Collected: 01/20/20 12:25

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Chloroethane	<0.0044 *		0.0044	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	01/20/20 17:45	01/30/20 18:09	1
4-Bromofluorobenzene (Surr)	104		75 - 131	01/20/20 17:45	01/30/20 18:09	1
Dibromofluoromethane	90		75 - 126	01/20/20 17:45	01/30/20 18:09	1
Toluene-d8 (Surr)	97		75 - 124	01/20/20 17:45	01/30/20 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B09

Lab Sample ID: 500-176582-6

Date Collected: 01/20/20 12:25

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Benzo[a]anthracene	0.035	J	0.040	0.0054	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Benzo[a]pyrene	0.040		0.040	0.0077	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Benzo[b]fluoranthene	0.057		0.040	0.0086	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Benzo[g,h,i]perylene	0.029	J	0.040	0.013	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Benzo[k]fluoranthene	0.024	J	0.040	0.012	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Chrysene	0.043		0.040	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Fluoranthene	0.068		0.040	0.0074	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Hexachlorobenzene	<0.080		0.080	0.0093	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B09

Lab Sample ID: 500-176582-6

Date Collected: 01/20/20 12:25

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.025	J	0.040	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Phenanthrene	0.033	J	0.040	0.0056	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Pyrene	0.060		0.040	0.0079	mg/Kg	☼	01/29/20 07:38	01/30/20 11:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		31 - 143				01/29/20 07:38	01/30/20 11:30	1
2-Fluorobiphenyl	73		43 - 145				01/29/20 07:38	01/30/20 11:30	1
2-Fluorophenol	78		31 - 166				01/29/20 07:38	01/30/20 11:30	1
Nitrobenzene-d5	66		37 - 147				01/29/20 07:38	01/30/20 11:30	1
Phenol-d5	85		30 - 153				01/29/20 07:38	01/30/20 11:30	1
Terphenyl-d14	116		42 - 157				01/29/20 07:38	01/30/20 11:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J	1.2	0.23	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Arsenic	7.8		0.59	0.20	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Barium	80		0.59	0.067	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Beryllium	1.1		0.24	0.055	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Boron	14		3.0	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Cadmium	0.20		0.12	0.021	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Calcium	22000		12	2.0	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Chromium	24		0.59	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Cobalt	14		0.30	0.077	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Copper	25		0.59	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Iron	22000		12	6.1	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Lead	37		0.30	0.14	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Magnesium	13000		5.9	2.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Manganese	300		0.59	0.086	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Nickel	38		0.59	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Potassium	3000		30	10	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Silver	3.6		0.30	0.076	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Sodium	1100		59	8.7	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Vanadium	33		0.30	0.070	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1
Zinc	69		1.2	0.52	mg/Kg	☼	01/27/20 07:30	01/29/20 21:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 10:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 10:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:01	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B09

Lab Sample ID: 500-176582-6

Date Collected: 01/20/20 12:25

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 10:01	1
Manganese	0.15		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:01	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.064		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:26	1
Barium	0.62		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:26	1
Beryllium	0.0070		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:26	1
Boron	0.16		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:26	1
Calcium	37		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:26	1
Chromium	0.17		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:26	1
Cobalt	0.042		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:26	1
Iron	160		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:26	1
Lead	0.14		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:26	1
Manganese	0.64		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:26	1
Nickel	0.17		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:26	1
Potassium	26		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:26	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:26	1
Zinc	0.48	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:26	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		02/02/20 16:06	02/04/20 18:06	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		02/02/20 15:59	02/03/20 13:16	1
Thallium	0.0043		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00037		0.00033	0.00033	mg/L		02/05/20 10:20	02/06/20 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.021	0.0068	mg/Kg	☼	02/04/20 13:55	02/05/20 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	01/31/20 10:00	01/31/20 14:01	1
pH	8.5		0.2	0.2	SU			02/03/20 14:29	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B09 Dup

Lab Sample ID: 500-176582-7

Date Collected: 01/20/20 12:30

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Chloroethane	<0.0043 *		0.0043	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	01/20/20 17:45	01/30/20 18:34	1
4-Bromofluorobenzene (Surr)	105		75 - 131	01/20/20 17:45	01/30/20 18:34	1
Dibromofluoromethane	88		75 - 126	01/20/20 17:45	01/30/20 18:34	1
Toluene-d8 (Surr)	98		75 - 124	01/20/20 17:45	01/30/20 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B09 Dup

Lab Sample ID: 500-176582-7

Date Collected: 01/20/20 12:30

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Benzo[a]anthracene	0.046		0.039	0.0052	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Benzo[a]pyrene	0.058		0.039	0.0075	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Benzo[b]fluoranthene	0.073		0.039	0.0084	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Benzo[g,h,i]perylene	0.035 J		0.039	0.013	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Benzo[k]fluoranthene	0.040		0.039	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Chrysene	0.055		0.039	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Dibenz(a,h)anthracene	0.010 J		0.039	0.0075	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Fluoranthene	0.092		0.039	0.0072	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B09 Dup

Lab Sample ID: 500-176582-7

Date Collected: 01/20/20 12:30

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.033	J	0.039	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Phenanthrene	0.039		0.039	0.0054	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Pyrene	0.083		0.039	0.0077	mg/Kg	☼	01/29/20 07:38	01/30/20 11:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		31 - 143				01/29/20 07:38	01/30/20 11:54	1
2-Fluorobiphenyl	80		43 - 145				01/29/20 07:38	01/30/20 11:54	1
2-Fluorophenol	87		31 - 166				01/29/20 07:38	01/30/20 11:54	1
Nitrobenzene-d5	71		37 - 147				01/29/20 07:38	01/30/20 11:54	1
Phenol-d5	91		30 - 153				01/29/20 07:38	01/30/20 11:54	1
Terphenyl-d14	114		42 - 157				01/29/20 07:38	01/30/20 11:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.2	0.22	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Arsenic	7.9		0.58	0.20	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Barium	71		0.58	0.066	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Beryllium	1.0		0.23	0.054	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Boron	14		2.9	0.27	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Cadmium	0.25		0.12	0.021	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Calcium	33000		12	2.0	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Chromium	21		0.58	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Cobalt	15		0.29	0.075	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Copper	24		0.58	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Iron	21000		12	6.0	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Lead	51		0.29	0.13	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Magnesium	19000		5.8	2.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Manganese	370		0.58	0.083	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Nickel	37		0.58	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Potassium	2800		29	10	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Silver	3.4		0.29	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Sodium	320		58	8.5	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Vanadium	29		0.29	0.068	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1
Zinc	67		1.2	0.51	mg/Kg	☼	01/27/20 07:30	01/29/20 21:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 10:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 10:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:06	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B09 Dup

Lab Sample ID: 500-176582-7

Date Collected: 01/20/20 12:30

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 81.9

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		02/02/20 16:06	02/03/20 10:06	1
Manganese	0.11		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:06	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:30	1
Barium	0.54		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:30	1
Beryllium	0.0067		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:30	1
Boron	0.18		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:30	1
Calcium	39		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:30	1
Chromium	0.16		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:30	1
Cobalt	0.034		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:30	1
Iron	150		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:30	1
Lead	0.12		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:30	1
Manganese	0.55		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:30	1
Nickel	0.16		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:30	1
Potassium	29		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:30	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:30	1
Zinc	0.46	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:30	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		02/02/20 16:06	02/04/20 18:08	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		02/02/20 15:59	02/03/20 13:18	1
Thallium	0.0039		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00050		0.00050	0.00050	mg/L		02/05/20 10:20	02/06/20 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0066	mg/Kg	☼	02/04/20 13:55	02/05/20 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.27	mg/Kg	☼	01/31/20 10:00	01/31/20 14:01	1
pH	7.9		0.2	0.2	SU			02/03/20 14:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B08

Lab Sample ID: 500-176582-8

Date Collected: 01/20/20 12:40

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Chloroethane	<0.0047 *		0.0047	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	01/20/20 17:45	01/30/20 19:00	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/20/20 17:45	01/30/20 19:00	1
Dibromofluoromethane	90		75 - 126	01/20/20 17:45	01/30/20 19:00	1
Toluene-d8 (Surr)	96		75 - 124	01/20/20 17:45	01/30/20 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B08

Lab Sample ID: 500-176582-8

Date Collected: 01/20/20 12:40

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Benzo[a]anthracene	0.0064	J	0.041	0.0056	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Fluoranthene	0.011	J	0.041	0.0077	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B08

Lab Sample ID: 500-176582-8

Date Collected: 01/20/20 12:40

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1
Pyrene	0.010	J	0.041	0.0082	mg/Kg	☼	01/29/20 07:38	01/30/20 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		31 - 143	01/29/20 07:38	01/30/20 12:17	1
2-Fluorobiphenyl	76		43 - 145	01/29/20 07:38	01/30/20 12:17	1
2-Fluorophenol	85		31 - 166	01/29/20 07:38	01/30/20 12:17	1
Nitrobenzene-d5	70		37 - 147	01/29/20 07:38	01/30/20 12:17	1
Phenol-d5	89		30 - 153	01/29/20 07:38	01/30/20 12:17	1
Terphenyl-d14	113		42 - 157	01/29/20 07:38	01/30/20 12:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.75	J	1.3	0.24	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Arsenic	9.9		0.63	0.22	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Barium	110		0.63	0.072	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Beryllium	1.3		0.25	0.059	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Boron	10		3.1	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Cadmium	0.13		0.13	0.023	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Calcium	3400		13	2.1	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Chromium	28		0.63	0.31	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Cobalt	16		0.31	0.082	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Copper	27		0.63	0.18	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Iron	27000		13	6.5	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Lead	20		0.31	0.15	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Magnesium	5400		6.3	3.1	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Manganese	460		0.63	0.091	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Nickel	47		0.63	0.18	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Potassium	2700		31	11	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Silver	4.4		0.31	0.081	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Sodium	640		63	9.3	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Vanadium	37		0.31	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1
Zinc	70		1.3	0.55	mg/Kg	☼	01/27/20 07:30	01/29/20 21:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 10:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 10:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:10	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B08

Lab Sample ID: 500-176582-8

Date Collected: 01/20/20 12:40

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.049		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 10:10	1
Manganese	0.19		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:10	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:43	1
Barium	0.69		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:43	1
Beryllium	0.0067		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:43	1
Boron	0.14		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:43	1
Calcium	22		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:43	1
Chromium	0.16		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:43	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:43	1
Iron	150		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:43	1
Lead	0.072		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:43	1
Manganese	0.45		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:43	1
Nickel	0.15		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:43	1
Potassium	23		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:43	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:43	1
Zinc	0.41	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:43	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		02/02/20 16:06	02/04/20 18:10	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		02/02/20 15:59	02/03/20 13:24	1
Thallium	0.0041		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00034		0.00033	0.00033	mg/L		02/05/20 10:20	02/06/20 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.021	0.0068	mg/Kg	☼	02/04/20 13:55	02/05/20 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	01/31/20 10:00	01/31/20 14:02	1
pH	7.7		0.2	0.2	SU			02/03/20 14:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B07

Lab Sample ID: 500-176582-9

Date Collected: 01/20/20 12:50

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Chloroethane	<0.0044 *		0.0044	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	01/20/20 17:45	01/30/20 19:25	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/20/20 17:45	01/30/20 19:25	1
Dibromofluoromethane	90		75 - 126	01/20/20 17:45	01/30/20 19:25	1
Toluene-d8 (Surr)	97		75 - 124	01/20/20 17:45	01/30/20 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B07

Lab Sample ID: 500-176582-9

Date Collected: 01/20/20 12:50

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B07

Lab Sample ID: 500-176582-9

Date Collected: 01/20/20 12:50

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	01/29/20 07:38	01/30/20 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		31 - 143				01/29/20 07:38	01/30/20 14:38	1
2-Fluorobiphenyl	80		43 - 145				01/29/20 07:38	01/30/20 14:38	1
2-Fluorophenol	82		31 - 166				01/29/20 07:38	01/30/20 14:38	1
Nitrobenzene-d5	70		37 - 147				01/29/20 07:38	01/30/20 14:38	1
Phenol-d5	85		30 - 153				01/29/20 07:38	01/30/20 14:38	1
Terphenyl-d14	120		42 - 157				01/29/20 07:38	01/30/20 14:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.22	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Arsenic	7.9		0.57	0.19	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Barium	76		0.57	0.065	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Beryllium	1.1		0.23	0.053	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Boron	11		2.8	0.26	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Cadmium	0.14		0.11	0.020	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Calcium	14000		11	1.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Chromium	23		0.57	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Cobalt	12		0.28	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Copper	26		0.57	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Iron	22000		11	5.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Lead	18		0.28	0.13	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Magnesium	8600		5.7	2.8	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Manganese	260		0.57	0.082	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Nickel	40		0.57	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Potassium	2700		28	10	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Silver	3.9		0.28	0.073	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Sodium	260		57	8.4	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Vanadium	31		0.28	0.067	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	1
Zinc	67		1.1	0.50	mg/Kg	☼	01/27/20 07:30	01/29/20 21:34	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		02/02/20 16:06	02/03/20 10:24	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:24	1
Lead	0.032		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 10:24	1
Manganese	0.043		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B07

Lab Sample ID: 500-176582-9

Date Collected: 01/20/20 12:50

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Barium	0.31	J	0.50	0.050	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Beryllium	0.0042		0.0040	0.0040	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Boron	0.18		0.10	0.050	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Calcium	19		2.5	0.50	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Chromium	0.098		0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Cobalt	0.017	J	0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Iron	81		0.40	0.20	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Lead	0.031		0.0075	0.0075	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Manganese	0.26		0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Nickel	0.085		0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Potassium	23		2.5	0.50	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Silver	<0.025		0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 11:47	1
Zinc	0.18	J	0.50	0.020	mg/L	-	02/02/20 15:59	02/03/20 11:47	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	-	02/02/20 16:06	02/04/20 18:16	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	-	02/02/20 15:59	02/03/20 13:26	1
Thallium	0.0034		0.0020	0.0020	mg/L	-	02/02/20 15:59	02/03/20 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.00020	mg/L	-	02/05/20 10:20	02/06/20 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0062	mg/Kg	☼	02/04/20 13:55	02/05/20 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.24	mg/Kg	☼	01/31/20 10:00	01/31/20 14:02	1
pH	8.0		0.2	0.2	SU			02/03/20 14:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B06

Lab Sample ID: 500-176582-10

Date Collected: 01/20/20 13:00

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Acetone	0.0083	J	0.017	0.0075	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Chloroethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	01/20/20 17:45	01/30/20 19:50	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/20/20 17:45	01/30/20 19:50	1
Dibromofluoromethane	90		75 - 126	01/20/20 17:45	01/30/20 19:50	1
Toluene-d8 (Surr)	97		75 - 124	01/20/20 17:45	01/30/20 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B06

Lab Sample ID: 500-176582-10

Date Collected: 01/20/20 13:00

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B06

Lab Sample ID: 500-176582-10

Date Collected: 01/20/20 13:00

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/29/20 07:38	01/30/20 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143				01/29/20 07:38	01/30/20 15:02	1
2-Fluorobiphenyl	88		43 - 145				01/29/20 07:38	01/30/20 15:02	1
2-Fluorophenol	92		31 - 166				01/29/20 07:38	01/30/20 15:02	1
Nitrobenzene-d5	80		37 - 147				01/29/20 07:38	01/30/20 15:02	1
Phenol-d5	96		30 - 153				01/29/20 07:38	01/30/20 15:02	1
Terphenyl-d14	129		42 - 157				01/29/20 07:38	01/30/20 15:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.22	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Arsenic	7.0		0.56	0.19	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Barium	49		0.56	0.064	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Beryllium	0.99		0.22	0.052	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Boron	16		2.8	0.26	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Cadmium	0.19		0.11	0.020	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Calcium	63000		110	19	mg/Kg	☼	01/27/20 07:30	01/30/20 16:38	10
Chromium	20		0.56	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Cobalt	13		0.28	0.073	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Copper	24		0.56	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Iron	20000		11	5.8	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Lead	15		0.28	0.13	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Magnesium	19000		5.6	2.8	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Manganese	260		0.56	0.081	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Nickel	33		0.56	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Potassium	3200		28	9.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Silver	3.0		0.28	0.072	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Sodium	400		56	8.3	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Vanadium	26		0.28	0.066	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	1
Zinc	53		1.1	0.49	mg/Kg	☼	01/27/20 07:30	01/29/20 21:46	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		02/02/20 16:06	02/03/20 10:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:28	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:28	1
Lead	0.0085		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 10:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B06

Lab Sample ID: 500-176582-10

Date Collected: 01/20/20 13:00

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.099		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:28	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.046	J	0.050	0.010	mg/L		02/02/20 15:59	02/03/20 11:51	1
Barium	0.39	J	0.50	0.050	mg/L		02/02/20 15:59	02/03/20 11:51	1
Beryllium	0.0056		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 11:51	1
Boron	0.18		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 11:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 11:51	1
Calcium	30		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:51	1
Chromium	0.12		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:51	1
Cobalt	0.026		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:51	1
Iron	110		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 11:51	1
Lead	0.044		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 11:51	1
Manganese	0.37		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:51	1
Nickel	0.12		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:51	1
Potassium	27		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 11:51	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 11:51	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 11:51	1
Zinc	0.39	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 11:51	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		02/02/20 16:06	02/04/20 18:18	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		02/02/20 15:59	02/03/20 13:28	1
Thallium	0.0045		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L		02/05/20 10:20	02/06/20 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0093	J	0.018	0.0061	mg/Kg	☼	02/04/20 13:55	02/05/20 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.24	mg/Kg	☼	01/31/20 10:00	01/31/20 14:03	1
pH	8.3		0.2	0.2	SU			02/03/20 14:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B04

Lab Sample ID: 500-176582-12

Date Collected: 01/20/20 13:20

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Acetone	0.014	J	0.019	0.0081	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Chloroethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	01/20/20 17:45	01/30/20 20:41	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/20/20 17:45	01/30/20 20:41	1
Dibromofluoromethane	91		75 - 126	01/20/20 17:45	01/30/20 20:41	1
Toluene-d8 (Surr)	98		75 - 124	01/20/20 17:45	01/30/20 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B04

Lab Sample ID: 500-176582-12

Date Collected: 01/20/20 13:20

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B04

Lab Sample ID: 500-176582-12

Date Collected: 01/20/20 13:20

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	01/29/20 07:38	01/30/20 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		31 - 143				01/29/20 07:38	01/30/20 15:49	1
2-Fluorobiphenyl	73		43 - 145				01/29/20 07:38	01/30/20 15:49	1
2-Fluorophenol	79		31 - 166				01/29/20 07:38	01/30/20 15:49	1
Nitrobenzene-d5	65		37 - 147				01/29/20 07:38	01/30/20 15:49	1
Phenol-d5	81		30 - 153				01/29/20 07:38	01/30/20 15:49	1
Terphenyl-d14	113		42 - 157				01/29/20 07:38	01/30/20 15:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.3	0.24	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Arsenic	8.6		0.63	0.21	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Barium	110		0.63	0.071	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Beryllium	1.3		0.25	0.058	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Boron	12		3.1	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Cadmium	0.13		0.13	0.023	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Calcium	2900		13	2.1	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Chromium	29		0.63	0.31	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Cobalt	18		0.31	0.082	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Copper	28		0.63	0.18	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Iron	27000		13	6.5	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Lead	18		0.31	0.14	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Magnesium	6400		6.3	3.1	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Manganese	410		0.63	0.091	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Nickel	49		0.63	0.18	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Potassium	3000		31	11	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Silver	4.5		0.31	0.081	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Sodium	1100		63	9.3	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Vanadium	37		0.31	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1
Zinc	68		1.3	0.55	mg/Kg	☼	01/27/20 07:30	01/29/20 21:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 10:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 10:37	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:37	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B04

Lab Sample ID: 500-176582-12

Date Collected: 01/20/20 13:20

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 10:37	1
Manganese	0.45		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:37	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.052		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 12:00	1
Barium	0.81		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 12:00	1
Beryllium	0.0092		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 12:00	1
Boron	0.22		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 12:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 12:00	1
Calcium	62		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:00	1
Chromium	0.21		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:00	1
Cobalt	0.037		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:00	1
Iron	180		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 12:00	1
Lead	0.054		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 12:00	1
Manganese	0.63		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:00	1
Nickel	0.19		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:00	1
Potassium	35		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 12:00	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:00	1
Zinc	0.35	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 12:00	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		02/02/20 16:06	02/04/20 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/20 15:59	02/03/20 13:32	1
Thallium	0.0042		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00038		0.00033	0.00033	mg/L		02/05/20 10:20	02/06/20 10:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.020	0.0067	mg/Kg	☼	02/04/20 13:55	02/05/20 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.30	mg/Kg	☼	01/31/20 10:00	01/31/20 14:03	1
pH	8.6		0.2	0.2	SU			02/03/20 14:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B03

Lab Sample ID: 500-176582-13

Date Collected: 01/20/20 13:30

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Acetone	0.050		0.018	0.0077	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	01/20/20 17:45	01/30/20 13:28	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/20/20 17:45	01/30/20 13:28	1
Dibromofluoromethane	101		75 - 126	01/20/20 17:45	01/30/20 13:28	1
Toluene-d8 (Surr)	89		75 - 124	01/20/20 17:45	01/30/20 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B03

Lab Sample ID: 500-176582-13

Date Collected: 01/20/20 13:30

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B03

Lab Sample ID: 500-176582-13

Date Collected: 01/20/20 13:30

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/29/20 07:38	01/30/20 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		31 - 143	01/29/20 07:38	01/30/20 16:13	1
2-Fluorobiphenyl	73		43 - 145	01/29/20 07:38	01/30/20 16:13	1
2-Fluorophenol	80		31 - 166	01/29/20 07:38	01/30/20 16:13	1
Nitrobenzene-d5	66		37 - 147	01/29/20 07:38	01/30/20 16:13	1
Phenol-d5	85		30 - 153	01/29/20 07:38	01/30/20 16:13	1
Terphenyl-d14	123		42 - 157	01/29/20 07:38	01/30/20 16:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.2	0.23	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Arsenic	6.4		0.58	0.20	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Barium	60		0.58	0.066	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Beryllium	0.99		0.23	0.054	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Boron	15		2.9	0.27	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Cadmium	0.16		0.12	0.021	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Calcium	61000		120	20	mg/Kg	☼	01/27/20 07:30	01/30/20 16:42	10
Chromium	21		0.58	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Cobalt	14		0.29	0.076	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Copper	19		0.58	0.16	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Iron	20000		12	6.1	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Lead	13		0.29	0.13	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Magnesium	21000		5.8	2.9	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Manganese	320		0.58	0.084	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Nickel	36		0.58	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Potassium	3000		29	10	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Silver	3.2		0.29	0.075	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Sodium	930		58	8.6	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Vanadium	27		0.29	0.069	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1
Zinc	54		1.2	0.51	mg/Kg	☼	01/27/20 07:30	01/29/20 21:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 10:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 10:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:42	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B03

Lab Sample ID: 500-176582-13

Date Collected: 01/20/20 13:30

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.019		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 10:42	1
Manganese	0.41		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:42	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.072		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 12:04	1
Barium	0.75		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 12:04	1
Beryllium	0.0085		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 12:04	1
Boron	0.21		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 12:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 12:04	1
Calcium	66		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:04	1
Chromium	0.20		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:04	1
Cobalt	0.042		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:04	1
Iron	190		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 12:04	1
Lead	0.067		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 12:04	1
Manganese	0.64		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:04	1
Nickel	0.20		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:04	1
Potassium	33		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 12:04	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:04	1
Zinc	0.37	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 12:04	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		02/02/20 16:06	02/04/20 18:25	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		02/02/20 15:59	02/03/20 13:34	1
Thallium	0.0040		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00048		0.00033	0.00033	mg/L		02/05/20 10:20	02/06/20 10:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0060	mg/Kg	☼	02/04/20 13:55	02/05/20 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.26	mg/Kg	☼	01/31/20 10:00	01/31/20 14:04	1
pH	8.8		0.2	0.2	SU			02/03/20 14:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B02

Lab Sample ID: 500-176582-14

Date Collected: 01/20/20 13:40

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Acetone	0.039		0.020	0.0089	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/20/20 17:45	01/30/20 13:54	1
4-Bromofluorobenzene (Surr)	99		75 - 131	01/20/20 17:45	01/30/20 13:54	1
Dibromofluoromethane	103		75 - 126	01/20/20 17:45	01/30/20 13:54	1
Toluene-d8 (Surr)	89		75 - 124	01/20/20 17:45	01/30/20 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B02

Lab Sample ID: 500-176582-14

Date Collected: 01/20/20 13:40

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B02

Lab Sample ID: 500-176582-14

Date Collected: 01/20/20 13:40

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	01/29/20 07:38	01/30/20 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		31 - 143				01/29/20 07:38	01/30/20 16:36	1
2-Fluorobiphenyl	66		43 - 145				01/29/20 07:38	01/30/20 16:36	1
2-Fluorophenol	76		31 - 166				01/29/20 07:38	01/30/20 16:36	1
Nitrobenzene-d5	59		37 - 147				01/29/20 07:38	01/30/20 16:36	1
Phenol-d5	82		30 - 153				01/29/20 07:38	01/30/20 16:36	1
Terphenyl-d14	117		42 - 157				01/29/20 07:38	01/30/20 16:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.2	0.24	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Arsenic	8.8		0.62	0.21	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Barium	71		0.62	0.071	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Beryllium	0.90		0.25	0.058	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Boron	6.8		3.1	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Cadmium	0.17		0.12	0.022	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Calcium	3600		12	2.1	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Chromium	19		0.62	0.31	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Cobalt	16		0.31	0.082	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Copper	24		0.62	0.17	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Iron	21000		12	6.5	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Lead	45		0.31	0.14	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Magnesium	3800		6.2	3.1	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Manganese	560		0.62	0.091	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Nickel	30		0.62	0.18	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Potassium	1800		31	11	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Selenium	<0.62		0.62	0.37	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Silver	3.5		0.31	0.081	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Sodium	530		62	9.2	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Vanadium	29		0.31	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1
Zinc	60		1.2	0.55	mg/Kg	☼	01/27/20 07:30	01/29/20 22:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 10:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 10:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:46	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:46	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B02

Lab Sample ID: 500-176582-14

Date Collected: 01/20/20 13:40

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 78.0

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		02/02/20 16:06	02/03/20 10:46	1
Manganese	0.047		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:46	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.074		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 12:09	1
Barium	0.49	J	0.50	0.050	mg/L		02/02/20 15:59	02/03/20 12:09	1
Beryllium	0.0065		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 12:09	1
Boron	0.11		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 12:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 12:09	1
Calcium	15		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:09	1
Chromium	0.15		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:09	1
Cobalt	0.036		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:09	1
Iron	180		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 12:09	1
Lead	0.079		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 12:09	1
Manganese	1.1		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:09	1
Nickel	0.21		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:09	1
Potassium	20		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 12:09	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:09	1
Zinc	0.39	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 12:09	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		02/02/20 16:06	02/04/20 18:27	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		02/02/20 15:59	02/03/20 13:36	1
Thallium	0.0057		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00041		0.00020	0.00020	mg/L		02/05/20 10:20	02/06/20 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.021	0.0070	mg/Kg	☼	02/04/20 13:55	02/05/20 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	01/31/20 10:00	01/31/20 14:04	1
pH	7.2		0.2	0.2	SU			02/03/20 14:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B01

Lab Sample ID: 500-176582-15

Date Collected: 01/20/20 13:50

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Acetone	0.028		0.019	0.0083	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/20/20 17:45	01/30/20 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	01/20/20 17:45	01/30/20 14:20	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/20/20 17:45	01/30/20 14:20	1
Dibromofluoromethane	101		75 - 126	01/20/20 17:45	01/30/20 14:20	1
Toluene-d8 (Surr)	91		75 - 124	01/20/20 17:45	01/30/20 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B01

Lab Sample ID: 500-176582-15

Date Collected: 01/20/20 13:50

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B01

Lab Sample ID: 500-176582-15

Date Collected: 01/20/20 13:50

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	01/29/20 07:38	01/30/20 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		31 - 143				01/29/20 07:38	01/30/20 17:00	1
2-Fluorobiphenyl	75		43 - 145				01/29/20 07:38	01/30/20 17:00	1
2-Fluorophenol	82		31 - 166				01/29/20 07:38	01/30/20 17:00	1
Nitrobenzene-d5	69		37 - 147				01/29/20 07:38	01/30/20 17:00	1
Phenol-d5	88		30 - 153				01/29/20 07:38	01/30/20 17:00	1
Terphenyl-d14	122		42 - 157				01/29/20 07:38	01/30/20 17:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.3	0.24	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Arsenic	7.5		0.63	0.21	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Barium	77		0.63	0.072	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Beryllium	1.0		0.25	0.059	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Boron	15		3.1	0.29	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Cadmium	0.25		0.13	0.023	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Calcium	63000		130	21	mg/Kg	☼	01/27/20 07:30	01/30/20 16:47	10
Chromium	22		0.63	0.31	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Cobalt	13		0.31	0.082	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Copper	26		0.63	0.18	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Iron	21000		13	6.5	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Lead	15		0.31	0.15	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Magnesium	19000		6.3	3.1	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Manganese	350		0.63	0.091	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Nickel	40		0.63	0.18	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Potassium	2900		31	11	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Silver	3.5		0.31	0.081	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Sodium	450		63	9.3	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Vanadium	28		0.31	0.074	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1
Zinc	58		1.3	0.55	mg/Kg	☼	01/27/20 07:30	01/29/20 22:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 10:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 10:51	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:51	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Client Sample ID: 2955V-17-B01

Lab Sample ID: 500-176582-15

Date Collected: 01/20/20 13:50

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 77.4

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		02/02/20 16:06	02/03/20 10:51	1
Manganese	0.26		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:51	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.052		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 12:13	1
Barium	0.65		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 12:13	1
Beryllium	0.0069		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 12:13	1
Boron	0.17		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 12:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 12:13	1
Calcium	25		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:13	1
Chromium	0.16		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:13	1
Cobalt	0.027		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:13	1
Iron	150		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 12:13	1
Lead	0.047		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 12:13	1
Manganese	0.47		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:13	1
Nickel	0.16		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:13	1
Potassium	26		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 12:13	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:13	1
Zinc	0.27	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 12:13	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		02/02/20 16:06	02/04/20 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/20 15:59	02/03/20 13:38	1
Thallium	0.0042		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00026		0.00020	0.00020	mg/L		02/05/20 10:20	02/06/20 10:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.0067	mg/Kg	☼	02/04/20 13:55	02/05/20 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	01/31/20 10:00	01/31/20 14:07	1
pH	8.2		0.2	0.2	SU			02/03/20 15:00	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176582-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and 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
F1	MS and/or MSD Recovery is outside acceptance 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
F1	MS and/or MSD Recovery is outside acceptance limits.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

500-176582

Client Contact	Laboratory	Project Name: <u>AE7-33A</u>	COC No.: <u>1</u> of <u>2</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: 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>PT13/wd-184-COC/33A</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 <u>Josh Hey</u>	Lab Job No.: Sample Temp: <u>4.0, 5.3, 3.5</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.		Analyses	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Matrix Key:	Comments
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization		
1	2955V-17-1314	1/20	1135	S	X	X					X	X	X	X	X			
2	2955V-17-1313		1145															
3	2955V-17-1312		1155															
4	2955V-17-1311		1205															
5	2955V-17-1310		1215															
6	2955V-17-1309		1225															
7	2955V-17-1309 Dur		1230															
8	2955V-17-1308		1240															
9	2955V-17-1307		1250															
10	2955V-17-1306		1300															
11	2955V-17-1305		1310															



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

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/20 1435</u>	Received by: <u>Stephanie Humandry TH</u>	Date/Time: <u>1/20/20 1435</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



CHAIN OF CUSTODY RECORD

500-176582

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	Project Name: <u>AC7-33A</u>	COC No.: <u>2</u> of <u>2</u>
	Address: 2417 Bond Street University Park, IL 60484	Project No.: <u>PT13/WO: 184-006/33A</u>	Lab Job No.:
Phone: 708-534-5200	Contact: Dick Wright	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>4.6, 5.3, 3.5</u>
email: richard.wright@testamericainc.com	email: richard.wright@testamericainc.com	Sampler: <u>Josh Hey</u>	Matrix Key:

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				
12	2955V-17-1304	1/20	1320	S	X	X					X	X	X	X	X					
13	2955V-17-1303		1330		↓	↓					↓	↓	↓	↓	↓					
14	2955V-17-1302		1340		↓	↓					↓	↓	↓	↓	↓					
15	2955V-17-1301		1350	↓	↓	↓					↓	↓	↓	↓	↓					

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	*** Cyanide	pH	% Solids	Waste Characterization				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/20 1435</u>	Received by: <u>Stephanie Hernandez TA</u>	Date/Time: <u>1/20/20 1435</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

901 Park Place, 5501-5567 Wolf Rd., 1609-2023 55th St., 5501-5509 Linden Av., 5536-5539 Laurel Av., 1704 W. 55th Place

City: Western Springs/La Grange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.78981 Longitude: - 87.89386
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 3,332

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-18-B01, -B02, -B03, -B04, -B05, -B06, -B07, -B08, -B09, -B10, -B11, -B14 AND -B15 WERE SAMPLED ADJACENT TO SITE 2955V-18. SEE TABLE 3c AND FIGURES 3 THROUGH 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176468-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-18
Residences

Sample ID	2955V-18-B01	2955V-18-B02-1	2955V-18-B02-2	2955V-18-B03-1	2955V-18-B03-2	Maximum Allowable Concentration									
Sample Depth (ft)	0-2	0-4	4-8	0-4	4-8	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area					
Sample Date	1/16/2020	1/16/2020	1/16/2020	1/16/2020	1/16/2020										
PID	0	0	0	0	0										
Sample pH	8.5	8.5	8.6	8.5	8.6										
Matrix	Soil	Soil	Soil	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)															
Benzo(a)pyrene	0.22	1,2	ND	ND	0.4	1,2	ND	ND	0.09	0.09	0.98	1.3	2.1		
Inorganic Compounds, Total (mg/kg)															
Arsenic	5.8		6		11		11		10		11.3	--	11.3	--	13

Sample ID	2955V-18-B03-2 DUP	2955V-18-B04-1	2955V-18-B04-2	2955V-18-B05-1	2955V-18-B05-2	Maximum Allowable Concentration									
Sample Depth (ft)	4-8	0-4	4-8	0-4	4-8	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area					
Sample Date	1/16/2020	1/16/2020	1/16/2020	1/16/2020	1/16/2020										
PID	0	0	0	0	0										
Sample pH	8.5	8.8	8.1	8.1	8.7										
Matrix	Soil	Soil	Soil	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)															
Benzo(a)pyrene	ND		ND		ND		ND		ND		0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)															
Arsenic	8		12	1,3	11		11		7.8		11.3	--	11.3	--	13

Sample ID	2955V-18-B06-1	2955V-18-B06-2	2955V-18-B07-1	2955V-18-B07-2	2955V-18-B08-1	Maximum Allowable Concentration									
Sample Depth (ft)	0-4	4-8	0-4	4-8	0-4	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area					
Sample Date	1/16/2020	1/16/2020	1/16/2020	1/16/2020	1/16/2020										
PID	0	0	0	0	0										
Sample pH	8.7	8.2	8.7	7.9	8										
Matrix	Soil	Soil	Soil	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)															
Benzo(a)pyrene	ND		ND		J 0.024		ND		ND		0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)															
Arsenic	11		7.7		10		9.2		10		11.3	--	11.3	--	13

ISGS Site 2955V-18

Residences

Sample ID	2955V-18-B08-2	2955V-18-B08-2 DUP	2955V-18-B09-1	2955V-18-B09-2	2955V-18-B10-1	Maximum Allowable Concentration						
Sample Depth (ft)	4-8	4-8	0-4	4-8	0-4	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area		
Sample Date	1/16/2020	1/16/2020	1/16/2020	1/16/2020	1/16/2020							
PID	0	0	0	0	0							
Sample pH	8.5	8	8.3	8.2	8.4							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	ND	ND	0.33	1,2	ND	0.095	1,2	0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)												
Arsenic	12	1,3	7.7	8.3	8	9.1		11.3	--	11.3	--	13

Sample ID	2955V-18-B10-2	2955V-18-B11-1	2955V-18-B11-2	2955V-18-B14-1	2955V-18-B14-2	Maximum Allowable Concentration						
Sample Depth (ft)	4-8	0-4	4-8	0-4	4-8	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area		
Sample Date	1/16/2020	1/16/2020	1/16/2020	1/16/2020	1/16/2020							
PID	0	0	0	0	0							
Sample pH	8	8.6	8.3	8.7	8.5							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	ND	0.063	ND	ND	ND	0.09		0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)												
Arsenic	9	8.6	8.9	8.3	7.6			11.3	--	11.3	--	13

Sample ID	2955V-18-B15-1	2955V-18-B15-2	Maximum Allowable Concentration					
Sample Depth (ft)	0-4	4-8	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area	
Sample Date	1/16/2020	1/16/2020						
PID	0	0						
Sample pH	8.7	8.4						
Matrix	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)								
Benzo(a)pyrene	0.048	0.21	1,2	0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)								
Arsenic	5.5	7.6		11.3	--	11.3	--	13

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176468-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/31/2020 9:22:50 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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B01

Lab Sample ID: 500-176468-1

Date Collected: 01/16/20 11:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	01/17/20 16:30	01/28/20 13:42	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/17/20 16:30	01/28/20 13:42	1
Dibromofluoromethane	90		75 - 126	01/17/20 16:30	01/28/20 13:42	1
Toluene-d8 (Surr)	100		75 - 124	01/17/20 16:30	01/28/20 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B01

Lab Sample ID: 500-176468-1

Date Collected: 01/16/20 11:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Anthracene	0.019	J	0.039	0.0066	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Benzo[a]anthracene	0.14		0.039	0.0053	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Benzo[b]fluoranthene	0.31		0.039	0.0085	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Benzo[g,h,i]perylene	0.098		0.039	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Benzo[k]fluoranthene	0.11		0.039	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Chrysene	0.18		0.039	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Dibenz(a,h)anthracene	0.024	J	0.039	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Fluoranthene	0.32		0.039	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B01

Lab Sample ID: 500-176468-1

Date Collected: 01/16/20 11:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.094		0.039	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Phenanthrene	0.10		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Pyrene	0.27		0.039	0.0078	mg/Kg	☼	01/27/20 16:55	01/29/20 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		31 - 143				01/27/20 16:55	01/29/20 23:21	1
2-Fluorobiphenyl	100		43 - 145				01/27/20 16:55	01/29/20 23:21	1
2-Fluorophenol	135		31 - 166				01/27/20 16:55	01/29/20 23:21	1
Nitrobenzene-d5	84		37 - 147				01/27/20 16:55	01/29/20 23:21	1
Phenol-d5	114		30 - 153				01/27/20 16:55	01/29/20 23:21	1
Terphenyl-d14	127		42 - 157				01/27/20 16:55	01/29/20 23:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.77	J F1 F2	1.1	0.22	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Arsenic	5.8	F1 F2	0.57	0.20	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Barium	47	F1	0.57	0.065	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Beryllium	0.69		0.23	0.054	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Boron	14		2.9	0.27	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Cadmium	0.29		0.11	0.021	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Calcium	96000	B F2	57	9.7	mg/Kg	☼	01/23/20 16:30	01/28/20 05:19	5
Chromium	14	F1 F2	0.57	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Cobalt	9.1		0.29	0.075	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Copper	20	F1	0.57	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Iron	17000	F2	57	30	mg/Kg	☼	01/23/20 16:30	01/28/20 05:19	5
Lead	67		0.29	0.13	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Magnesium	58000	F2	29	14	mg/Kg	☼	01/23/20 16:30	01/28/20 05:19	5
Manganese	360	B	0.57	0.083	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Nickel	22	F1	0.57	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Potassium	1900	F1 F2	29	10	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Selenium	0.45	J F1	0.57	0.34	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Silver	2.2	F1	0.29	0.074	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Sodium	540		57	8.5	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Thallium	0.34	J	0.57	0.29	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Vanadium	19	F1	0.29	0.068	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1
Zinc	73	F1 F2	1.1	0.50	mg/Kg	☼	01/23/20 16:30	01/24/20 22:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 09:41	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:41	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 09:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B01

Lab Sample ID: 500-176468-1

Date Collected: 01/16/20 11:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.0

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		01/28/20 15:22	01/29/20 09:41	1
Manganese	0.19		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:41	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.070		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 16:30	1
Barium	0.53		0.50	0.050	mg/L		01/25/20 16:06	01/28/20 16:30	1
Beryllium	0.0072		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 16:30	1
Boron	0.14		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 16:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 16:30	1
Calcium	30		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:30	1
Chromium	0.15		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:30	1
Cobalt	0.045		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:30	1
Iron	150		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 16:30	1
Lead	0.30		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 16:30	1
Manganese	0.92		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:30	1
Nickel	0.17		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:30	1
Potassium	21		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:30	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 16:30	1
Silver	0.012 J		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:30	1
Zinc	0.52		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 16:30	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		01/28/20 15:22	01/30/20 10:42	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		01/25/20 16:06	01/27/20 18:12	1
Thallium	0.0027		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00038		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0059	mg/Kg	☼	01/28/20 14:30	01/29/20 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.26	mg/Kg	☼	01/30/20 09:40	01/30/20 14:12	1
pH	8.5		0.2	0.2	SU			01/23/20 18:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B02-1

Lab Sample ID: 500-176468-2

Date Collected: 01/16/20 11:35

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1
Xylenes, Total	<0.0032		0.0032	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/17/20 16:30	01/28/20 14:07	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/17/20 16:30	01/28/20 14:07	1
Dibromofluoromethane	91		75 - 126	01/17/20 16:30	01/28/20 14:07	1
Toluene-d8 (Surr)	100		75 - 124	01/17/20 16:30	01/28/20 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B02-1

Lab Sample ID: 500-176468-2

Date Collected: 01/16/20 11:35

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Benzo[a]anthracene	<0.039		0.039	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B02-1

Lab Sample ID: 500-176468-2

Date Collected: 01/16/20 11:35

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	01/27/20 16:55	01/29/20 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		31 - 143				01/27/20 16:55	01/29/20 01:06	1
2-Fluorobiphenyl	111		43 - 145				01/27/20 16:55	01/29/20 01:06	1
2-Fluorophenol	146		31 - 166				01/27/20 16:55	01/29/20 01:06	1
Nitrobenzene-d5	97		37 - 147				01/27/20 16:55	01/29/20 01:06	1
Phenol-d5	106		30 - 153				01/27/20 16:55	01/29/20 01:06	1
Terphenyl-d14	157		42 - 157				01/27/20 16:55	01/29/20 01:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.22	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Arsenic	6.0		0.57	0.19	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Barium	46		0.57	0.065	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Beryllium	0.93		0.23	0.053	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Boron	14		2.8	0.26	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Cadmium	0.12		0.11	0.020	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Calcium	28000	B	11	1.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Chromium	20		0.57	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Cobalt	12		0.28	0.074	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Copper	25		0.57	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Iron	18000		11	5.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Lead	23		0.28	0.13	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Magnesium	16000		5.7	2.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Manganese	300	B	0.57	0.082	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Nickel	32		0.57	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Potassium	2700		28	10	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Selenium	0.39	J	0.57	0.33	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Silver	3.3		0.28	0.073	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Sodium	2100		57	8.4	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Thallium	0.29	J	0.57	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Vanadium	27		0.28	0.067	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1
Zinc	54		1.1	0.50	mg/Kg	☼	01/23/20 16:30	01/24/20 23:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 11:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 11:37	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:37	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 11:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B02-1

Lab Sample ID: 500-176468-2

Date Collected: 01/16/20 11:35

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.4

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		01/28/20 15:22	01/29/20 11:37	1
Manganese	3.1		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:37	1
Nickel	0.022	J	0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.072		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 16:34	1
Barium	0.53		0.50	0.050	mg/L		01/25/20 16:06	01/28/20 16:34	1
Beryllium	0.0075		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 16:34	1
Boron	0.17		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 16:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 16:34	1
Calcium	32		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:34	1
Chromium	0.15		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:34	1
Cobalt	0.054		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:34	1
Iron	150		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 16:34	1
Lead	0.072		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 16:34	1
Manganese	0.67		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:34	1
Nickel	0.20		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:34	1
Potassium	25		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 16:34	1
Silver	0.012	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:34	1
Zinc	0.39	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 16:34	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		01/28/20 15:22	01/30/20 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/25/20 16:06	01/27/20 18:14	1
Thallium	0.0037		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0059	mg/Kg	☼	01/28/20 14:30	01/29/20 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.30	mg/Kg	☼	01/30/20 09:40	01/30/20 14:13	1
pH	8.5		0.2	0.2	SU			01/23/20 18:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B02-2

Lab Sample ID: 500-176468-3

Date Collected: 01/16/20 11:40

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	01/17/20 16:30	01/28/20 14:33	1
4-Bromofluorobenzene (Surr)	111		75 - 131	01/17/20 16:30	01/28/20 14:33	1
Dibromofluoromethane	88		75 - 126	01/17/20 16:30	01/28/20 14:33	1
Toluene-d8 (Surr)	101		75 - 124	01/17/20 16:30	01/28/20 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B02-2

Lab Sample ID: 500-176468-3

Date Collected: 01/16/20 11:40

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B02-2

Lab Sample ID: 500-176468-3

Date Collected: 01/16/20 11:40

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/27/20 16:55	01/29/20 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143				01/27/20 16:55	01/29/20 01:35	1
2-Fluorobiphenyl	108		43 - 145				01/27/20 16:55	01/29/20 01:35	1
2-Fluorophenol	159		31 - 166				01/27/20 16:55	01/29/20 01:35	1
Nitrobenzene-d5	92		37 - 147				01/27/20 16:55	01/29/20 01:35	1
Phenol-d5	127		30 - 153				01/27/20 16:55	01/29/20 01:35	1
Terphenyl-d14	155		42 - 157				01/27/20 16:55	01/29/20 01:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Arsenic	11		0.58	0.20	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Barium	65		0.58	0.066	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Beryllium	0.98		0.23	0.054	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Boron	18		2.9	0.27	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Cadmium	0.16		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Calcium	55000	B	58	9.9	mg/Kg	☼	01/23/20 16:30	01/28/20 05:48	5
Chromium	20		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Cobalt	9.2		0.29	0.076	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Copper	21		0.58	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Iron	24000		12	6.1	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Lead	15		0.29	0.13	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Magnesium	22000		5.8	2.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Manganese	210	B	0.58	0.084	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Nickel	31		0.58	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Potassium	3300		29	10	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Silver	3.1		0.29	0.075	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Sodium	1600		58	8.6	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Thallium	0.45	J	0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Vanadium	26		0.29	0.069	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1
Zinc	59		1.2	0.51	mg/Kg	☼	01/23/20 16:30	01/24/20 23:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 11:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 11:41	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:41	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 11:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B02-2

Lab Sample ID: 500-176468-3

Date Collected: 01/16/20 11:40

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.5

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		01/28/20 15:22	01/29/20 11:41	1
Manganese	2.2		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:41	1
Nickel	0.016	J	0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.073		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 16:38	1
Barium	0.49	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 16:38	1
Beryllium	0.0078		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 16:38	1
Boron	0.23		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 16:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 16:38	1
Calcium	64		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:38	1
Chromium	0.16		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:38	1
Cobalt	0.042		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:38	1
Iron	160		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 16:38	1
Lead	0.083		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 16:38	1
Manganese	0.63		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:38	1
Nickel	0.20		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:38	1
Potassium	32		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:38	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 16:38	1
Silver	0.014	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:38	1
Zinc	0.44	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 16:38	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		01/28/20 15:22	01/30/20 11:39	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		01/25/20 16:06	01/27/20 18:16	1
Thallium	0.0027		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00037		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0065	mg/Kg	☼	01/28/20 14:30	01/29/20 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.23	mg/Kg	☼	01/30/20 09:40	01/30/20 14:13	1
pH	8.6		0.2	0.2	SU			01/23/20 18:37	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03-1

Lab Sample ID: 500-176468-4

Date Collected: 01/16/20 11:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	01/17/20 16:30	01/28/20 14:58	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/17/20 16:30	01/28/20 14:58	1
Dibromofluoromethane	89		75 - 126	01/17/20 16:30	01/28/20 14:58	1
Toluene-d8 (Surr)	101		75 - 124	01/17/20 16:30	01/28/20 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03-1

Lab Sample ID: 500-176468-4

Date Collected: 01/16/20 11:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Anthracene	0.035	J	0.040	0.0068	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Benzo[a]anthracene	0.28		0.040	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Benzo[a]pyrene	0.40		0.040	0.0079	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Benzo[b]fluoranthene	0.60		0.040	0.0088	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Benzo[k]fluoranthene	0.23		0.040	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Chrysene	0.36		0.040	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Dibenz(a,h)anthracene	0.040		0.040	0.0079	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Fluoranthene	0.75		0.040	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Fluorene	0.012	J	0.040	0.0057	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03-1

Lab Sample ID: 500-176468-4

Date Collected: 01/16/20 11:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.15		0.040	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Phenanthrene	0.26		0.040	0.0057	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Phenol	<0.20		0.20	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Pyrene	0.63		0.040	0.0081	mg/Kg	☼	01/27/20 16:55	01/29/20 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		31 - 143				01/27/20 16:55	01/29/20 23:51	1
2-Fluorobiphenyl	106		43 - 145				01/27/20 16:55	01/29/20 23:51	1
2-Fluorophenol	138		31 - 166				01/27/20 16:55	01/29/20 23:51	1
Nitrobenzene-d5	89		37 - 147				01/27/20 16:55	01/29/20 23:51	1
Phenol-d5	115		30 - 153				01/27/20 16:55	01/29/20 23:51	1
Terphenyl-d14	139		42 - 157				01/27/20 16:55	01/29/20 23:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.2	0.24	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Arsenic	11		0.61	0.21	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Barium	51		0.61	0.070	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Beryllium	0.97		0.24	0.057	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Boron	15		3.1	0.29	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Cadmium	0.24		0.12	0.022	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Calcium	32000	B	12	2.1	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Chromium	20		0.61	0.30	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Cobalt	18		0.31	0.080	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Copper	32		0.61	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Iron	22000		12	6.4	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Lead	30		0.31	0.14	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Magnesium	22000		6.1	3.0	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Manganese	460	B	0.61	0.089	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Nickel	41		0.61	0.18	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Potassium	2700		31	11	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Selenium	0.46	J	0.61	0.36	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Silver	3.1		0.31	0.079	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Sodium	790		61	9.1	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Thallium	0.49	J	0.61	0.31	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Vanadium	24		0.31	0.072	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1
Zinc	80		1.2	0.54	mg/Kg	☼	01/23/20 16:30	01/24/20 23:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 09:46	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:46	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 09:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03-1

Lab Sample ID: 500-176468-4

Date Collected: 01/16/20 11:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 80.8

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		01/28/20 15:22	01/29/20 09:46	1
Manganese	0.39		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:46	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.073		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 16:41	1
Barium	0.34	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 16:41	1
Beryllium	0.0060		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 16:41	1
Boron	0.15		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 16:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 16:41	1
Calcium	22		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:41	1
Chromium	0.11		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:41	1
Cobalt	0.034		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:41	1
Iron	130		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 16:41	1
Lead	0.097		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 16:41	1
Manganese	0.49		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:41	1
Nickel	0.16		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:41	1
Potassium	23		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 16:41	1
Silver	<0.025		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:41	1
Zinc	0.42	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 16:41	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		01/28/20 15:22	01/30/20 10:44	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		01/25/20 16:06	01/27/20 18:18	1
Thallium	0.0047		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00032		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.019	0.0063	mg/Kg	☼	01/28/20 14:30	01/29/20 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.24	mg/Kg	☼	01/30/20 09:40	01/30/20 14:13	1
pH	8.6		0.2	0.2	SU			01/23/20 18:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03-2

Lab Sample ID: 500-176468-5

Date Collected: 01/16/20 11:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Acetone	0.0089	J	0.017	0.0072	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	01/17/20 16:30	01/28/20 15:23	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/17/20 16:30	01/28/20 15:23	1
Dibromofluoromethane	89		75 - 126	01/17/20 16:30	01/28/20 15:23	1
Toluene-d8 (Surr)	106		75 - 124	01/17/20 16:30	01/28/20 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03-2

Lab Sample ID: 500-176468-5

Date Collected: 01/16/20 11:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2,4-Dichlorophenol	<0.40	F1	0.40	0.095	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2,4-Dimethylphenol	<0.40	F1	0.40	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2,4-Dinitrotoluene	<0.20	F1	0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2-Chloronaphthalene	<0.20	F1	0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2-Chlorophenol	<0.20	F1	0.20	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2-Methylnaphthalene	<0.080	F1	0.080	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2-Methylphenol	<0.20	F1	0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
2-Nitrophenol	<0.40	F1	0.40	0.094	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
3 & 4 Methylphenol	<0.20	F1	0.20	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
4-Bromophenyl phenyl ether	<0.20	F1	0.20	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Acenaphthylene	<0.040	F1	0.040	0.0053	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Anthracene	<0.040	F1	0.040	0.0067	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Benzo[a]anthracene	<0.040	F1	0.040	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Benzo[b]fluoranthene	<0.040	F1	0.040	0.0086	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Benzo[g,h,i]perylene	<0.040	F1	0.040	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Benzo[k]fluoranthene	<0.040	F1	0.040	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Chrysene	<0.040	F1	0.040	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Dibenzofuran	<0.20	F1	0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Dimethyl phthalate	<0.20	F1	0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Fluoranthene	<0.040	F1	0.040	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Fluorene	<0.040	F1	0.040	0.0056	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03-2

Lab Sample ID: 500-176468-5

Date Collected: 01/16/20 11:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Naphthalene	<0.040	F1	0.040	0.0061	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
N-Nitrosodiphenylamine	<0.20	F1	0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/27/20 16:55	01/29/20 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		31 - 143				01/27/20 16:55	01/29/20 05:32	1
2-Fluorobiphenyl	96		43 - 145				01/27/20 16:55	01/29/20 05:32	1
2-Fluorophenol	129		31 - 166				01/27/20 16:55	01/29/20 05:32	1
Nitrobenzene-d5	84		37 - 147				01/27/20 16:55	01/29/20 05:32	1
Phenol-d5	106		30 - 153				01/27/20 16:55	01/29/20 05:32	1
Terphenyl-d14	174	X	42 - 157				01/27/20 16:55	01/29/20 05:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Arsenic	10		0.58	0.20	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Barium	38		0.58	0.066	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Beryllium	0.97		0.23	0.054	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Boron	17		2.9	0.27	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Cadmium	0.19		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Calcium	51000	B	58	9.8	mg/Kg	☼	01/23/20 16:30	01/28/20 05:52	5
Chromium	19		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Cobalt	12		0.29	0.076	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Copper	32		0.58	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Iron	22000		12	6.0	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Lead	18		0.29	0.13	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Magnesium	23000		5.8	2.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Manganese	300	B	0.58	0.084	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Nickel	35		0.58	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Potassium	3100		29	10	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Selenium	0.56	J	0.58	0.34	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Silver	3.1		0.29	0.075	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Sodium	1000		58	8.6	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Thallium	0.58		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Vanadium	24		0.29	0.068	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1
Zinc	67		1.2	0.51	mg/Kg	☼	01/23/20 16:30	01/24/20 23:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010	J	0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 09:50	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:50	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 09:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03-2

Lab Sample ID: 500-176468-5

Date Collected: 01/16/20 11:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.9

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		01/28/20 15:22	01/29/20 09:50	1
Manganese	0.74		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:50	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.084		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 16:53	1
Barium	0.44	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 16:53	1
Beryllium	0.0076		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 16:53	1
Boron	0.19		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 16:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 16:53	1
Calcium	45		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:53	1
Chromium	0.15		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:53	1
Cobalt	0.052		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:53	1
Iron	170		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 16:53	1
Lead	0.088		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 16:53	1
Manganese	0.83		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:53	1
Nickel	0.22		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:53	1
Potassium	29		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 16:53	1
Silver	0.014	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:53	1
Zinc	0.43	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 16:53	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		01/28/20 15:22	01/30/20 10:46	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		01/25/20 16:06	01/27/20 18:20	1
Thallium	0.0041		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00048		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0064	mg/Kg	☼	01/28/20 14:30	01/29/20 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.30	mg/Kg	☼	01/30/20 09:40	01/30/20 14:15	1
pH	8.5		0.2	0.2	SU			01/23/20 18:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03 Dup

Lab Sample ID: 500-176468-6

Date Collected: 01/16/20 11:55

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Acetone	0.012	J	0.017	0.0074	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/17/20 16:30	01/28/20 15:49	1
4-Bromofluorobenzene (Surr)	110		75 - 131	01/17/20 16:30	01/28/20 15:49	1
Dibromofluoromethane	89		75 - 126	01/17/20 16:30	01/28/20 15:49	1
Toluene-d8 (Surr)	103		75 - 124	01/17/20 16:30	01/28/20 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03 Dup

Lab Sample ID: 500-176468-6

Date Collected: 01/16/20 11:55

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03 Dup

Lab Sample ID: 500-176468-6

Date Collected: 01/16/20 11:55

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/27/20 16:55	01/29/20 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		31 - 143				01/27/20 16:55	01/29/20 02:05	1
2-Fluorobiphenyl	95		43 - 145				01/27/20 16:55	01/29/20 02:05	1
2-Fluorophenol	135		31 - 166				01/27/20 16:55	01/29/20 02:05	1
Nitrobenzene-d5	81		37 - 147				01/27/20 16:55	01/29/20 02:05	1
Phenol-d5	106		30 - 153				01/27/20 16:55	01/29/20 02:05	1
Terphenyl-d14	153		42 - 157				01/27/20 16:55	01/29/20 02:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.22	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Arsenic	8.0		0.56	0.19	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Barium	50		0.56	0.064	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Beryllium	0.97		0.22	0.052	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Boron	17		2.8	0.26	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Cadmium	0.13		0.11	0.020	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Calcium	26000	B	11	1.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Chromium	20		0.56	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Cobalt	13		0.28	0.074	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Copper	25		0.56	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Iron	21000		11	5.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Lead	15		0.28	0.13	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Magnesium	20000		5.6	2.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Manganese	310	B	0.56	0.081	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Nickel	36		0.56	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Potassium	3100		28	9.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Silver	3.3		0.28	0.072	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Sodium	1100		56	8.3	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Thallium	0.35	J	0.56	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Vanadium	26		0.28	0.066	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1
Zinc	59		1.1	0.49	mg/Kg	☼	01/23/20 16:30	01/24/20 23:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 09:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:54	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 09:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B03 Dup

Lab Sample ID: 500-176468-6

Date Collected: 01/16/20 11:55

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.2

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		01/28/20 15:22	01/29/20 09:54	1
Manganese	1.2		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:54	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.062		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 16:57	1
Barium	0.32	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 16:57	1
Beryllium	0.0054		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 16:57	1
Boron	0.13		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 16:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 16:57	1
Calcium	24		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:57	1
Chromium	0.11		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:57	1
Cobalt	0.035		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:57	1
Iron	120		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 16:57	1
Lead	0.058		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 16:57	1
Manganese	0.64		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:57	1
Nickel	0.15		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:57	1
Potassium	20		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 16:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 16:57	1
Silver	0.012	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 16:57	1
Zinc	0.29	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 16:57	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		01/28/20 15:22	01/30/20 10:48	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		01/25/20 16:06	01/27/20 18:22	1
Thallium	0.0029		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00049		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0063	mg/Kg	☼	01/28/20 14:30	01/29/20 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	☼	01/30/20 09:40	01/30/20 14:15	1
pH	8.5		0.2	0.2	SU			01/23/20 18:47	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B04-1

Lab Sample ID: 500-176468-7

Date Collected: 01/16/20 12:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	01/17/20 16:30	01/28/20 16:14	1
4-Bromofluorobenzene (Surr)	103		75 - 131	01/17/20 16:30	01/28/20 16:14	1
Dibromofluoromethane	91		75 - 126	01/17/20 16:30	01/28/20 16:14	1
Toluene-d8 (Surr)	99		75 - 124	01/17/20 16:30	01/28/20 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B04-1

Lab Sample ID: 500-176468-7

Date Collected: 01/16/20 12:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B04-1

Lab Sample ID: 500-176468-7

Date Collected: 01/16/20 12:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/27/20 16:55	01/29/20 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		31 - 143				01/27/20 16:55	01/29/20 02:35	1
2-Fluorobiphenyl	93		43 - 145				01/27/20 16:55	01/29/20 02:35	1
2-Fluorophenol	121		31 - 166				01/27/20 16:55	01/29/20 02:35	1
Nitrobenzene-d5	79		37 - 147				01/27/20 16:55	01/29/20 02:35	1
Phenol-d5	87		30 - 153				01/27/20 16:55	01/29/20 02:35	1
Terphenyl-d14	148		42 - 157				01/27/20 16:55	01/29/20 02:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Arsenic	12		0.60	0.20	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Barium	36		0.60	0.068	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Beryllium	1.0		0.24	0.056	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Boron	16		3.0	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Cadmium	0.23		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Calcium	27000	B	12	2.0	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Chromium	19		0.60	0.29	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Cobalt	21		0.30	0.078	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Copper	34		0.60	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Iron	22000		12	6.2	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Lead	20		0.30	0.14	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Magnesium	20000		6.0	3.0	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Manganese	460	B	0.60	0.086	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Nickel	46		0.60	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Potassium	3100		30	11	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Selenium	0.49	J	0.60	0.35	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Silver	3.1		0.30	0.077	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Sodium	1500		60	8.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Thallium	0.96		0.60	0.30	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Vanadium	23		0.30	0.070	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1
Zinc	78		1.2	0.52	mg/Kg	☼	01/23/20 16:30	01/24/20 23:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 09:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:59	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 09:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B04-1

Lab Sample ID: 500-176468-7

Date Collected: 01/16/20 12:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.9

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		01/28/20 15:22	01/29/20 09:59	1
Manganese	0.42		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:59	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 09:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:01	1
Barium	0.49	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:01	1
Beryllium	0.0098		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:01	1
Boron	0.22		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:01	1
Calcium	27		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:01	1
Chromium	0.17		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:01	1
Cobalt	0.054		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:01	1
Iron	190		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:01	1
Lead	0.10		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:01	1
Manganese	0.66		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:01	1
Nickel	0.25		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:01	1
Potassium	30		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:01	1
Silver	0.015	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:01	1
Zinc	0.51		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:01	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		01/28/20 15:22	01/30/20 10:50	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		01/25/20 16:06	01/27/20 18:24	1
Thallium	0.0058		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00054		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0063	mg/Kg	☼	01/28/20 14:30	01/29/20 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/30/20 09:40	01/30/20 14:16	1
pH	8.8		0.2	0.2	SU			01/23/20 19:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B04-2

Lab Sample ID: 500-176468-8

Date Collected: 01/16/20 12:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Carbon disulfide	<0.0041		0.0041	0.00084	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	01/17/20 16:30	01/28/20 16:39	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/17/20 16:30	01/28/20 16:39	1
Dibromofluoromethane	89		75 - 126	01/17/20 16:30	01/28/20 16:39	1
Toluene-d8 (Surr)	101		75 - 124	01/17/20 16:30	01/28/20 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B04-2

Lab Sample ID: 500-176468-8

Date Collected: 01/16/20 12:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B04-2

Lab Sample ID: 500-176468-8

Date Collected: 01/16/20 12:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/27/20 16:55	01/29/20 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		31 - 143				01/27/20 16:55	01/29/20 03:04	1
2-Fluorobiphenyl	66		43 - 145				01/27/20 16:55	01/29/20 03:04	1
2-Fluorophenol	100		31 - 166				01/27/20 16:55	01/29/20 03:04	1
Nitrobenzene-d5	59		37 - 147				01/27/20 16:55	01/29/20 03:04	1
Phenol-d5	77		30 - 153				01/27/20 16:55	01/29/20 03:04	1
Terphenyl-d14	120		42 - 157				01/27/20 16:55	01/29/20 03:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.1	0.21	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Arsenic	11		0.54	0.19	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Barium	27		0.54	0.062	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Beryllium	0.90		0.22	0.051	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Boron	14		2.7	0.25	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Cadmium	0.22		0.11	0.020	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Calcium	29000	B	11	1.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Chromium	17		0.54	0.27	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Cobalt	16		0.27	0.071	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Copper	30		0.54	0.15	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Iron	21000		11	5.7	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Lead	20		0.27	0.13	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Magnesium	19000		5.4	2.7	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Manganese	370	B	0.54	0.079	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Nickel	42		0.54	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Potassium	3000		27	9.6	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Silver	3.1		0.27	0.070	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Sodium	1200		54	8.0	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Thallium	1.3		0.54	0.27	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Vanadium	20		0.27	0.064	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1
Zinc	66		1.1	0.48	mg/Kg	☼	01/23/20 16:30	01/24/20 23:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:03	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:03	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B04-2

Lab Sample ID: 500-176468-8

Date Collected: 01/16/20 12:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.4

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		01/28/20 15:22	01/29/20 10:03	1
Manganese	0.64		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:03	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:05	1
Barium	0.25	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:05	1
Beryllium	0.0078		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:05	1
Boron	0.21		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:05	1
Calcium	23		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:05	1
Chromium	0.13		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:05	1
Cobalt	0.039		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:05	1
Iron	170		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:05	1
Lead	0.11		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:05	1
Manganese	0.46		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:05	1
Nickel	0.18		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:05	1
Potassium	31		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:05	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:05	1
Silver	0.013	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:05	1
Zinc	0.52		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:05	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		01/28/20 15:22	01/30/20 10:52	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		01/25/20 16:06	01/27/20 18:30	1
Thallium	0.0075		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00035		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0060	mg/Kg	☼	01/28/20 14:30	01/29/20 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	01/30/20 09:40	01/30/20 14:16	1
pH	8.1		0.2	0.2	SU			01/23/20 18:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B05-1

Lab Sample ID: 500-176468-9

Date Collected: 01/16/20 12:15

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/17/20 16:30	01/29/20 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	01/17/20 16:30	01/29/20 11:24	1
4-Bromofluorobenzene (Surr)	109		75 - 131	01/17/20 16:30	01/29/20 11:24	1
Dibromofluoromethane	90		75 - 126	01/17/20 16:30	01/29/20 11:24	1
Toluene-d8 (Surr)	101		75 - 124	01/17/20 16:30	01/29/20 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B05-1

Lab Sample ID: 500-176468-9

Date Collected: 01/16/20 12:15

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B05-1

Lab Sample ID: 500-176468-9

Date Collected: 01/16/20 12:15

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	01/27/20 16:55	01/29/20 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		31 - 143				01/27/20 16:55	01/29/20 03:34	1
2-Fluorobiphenyl	112		43 - 145				01/27/20 16:55	01/29/20 03:34	1
2-Fluorophenol	152		31 - 166				01/27/20 16:55	01/29/20 03:34	1
Nitrobenzene-d5	101		37 - 147				01/27/20 16:55	01/29/20 03:34	1
Phenol-d5	125		30 - 153				01/27/20 16:55	01/29/20 03:34	1
Terphenyl-d14	158	X	42 - 157				01/27/20 16:55	01/29/20 03:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.77	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Arsenic	11		0.59	0.20	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Barium	36		0.59	0.067	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Beryllium	0.91		0.24	0.055	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Boron	15		3.0	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Cadmium	0.25		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Calcium	50000	B	59	10	mg/Kg	☼	01/23/20 16:30	01/28/20 05:56	5
Chromium	17		0.59	0.29	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Cobalt	17		0.30	0.077	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Copper	30		0.59	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Iron	20000		12	6.2	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Lead	20		0.30	0.14	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Magnesium	27000		5.9	2.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Manganese	460	B	0.59	0.086	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Nickel	39		0.59	0.17	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Potassium	2800		30	10	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Selenium	0.38	J	0.59	0.35	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Silver	2.9		0.30	0.076	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Sodium	990		59	8.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Thallium	1.0		0.59	0.30	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Vanadium	22		0.30	0.070	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1
Zinc	66		1.2	0.52	mg/Kg	☼	01/23/20 16:30	01/24/20 23:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:07	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B05-1

Lab Sample ID: 500-176468-9

Date Collected: 01/16/20 12:15

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.0

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		01/28/20 15:22	01/29/20 10:07	1
Manganese	0.63		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:07	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:09	1
Barium	0.35	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:09	1
Beryllium	0.0085		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:09	1
Boron	0.22		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:09	1
Calcium	22		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:09	1
Chromium	0.14		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:09	1
Cobalt	0.075		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:09	1
Iron	190		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:09	1
Lead	0.13		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:09	1
Manganese	0.70		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:09	1
Nickel	0.25		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:09	1
Potassium	29		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:09	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:09	1
Silver	0.014	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:09	1
Zinc	0.59		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:09	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		01/28/20 15:22	01/30/20 10:54	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		01/25/20 16:06	01/27/20 18:32	1
Thallium	0.0086		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00053		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0062	mg/Kg	☼	01/28/20 14:30	01/29/20 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.42		0.42	0.21	mg/Kg	☼	01/30/20 09:40	01/30/20 14:16	1
pH	8.7		0.2	0.2	SU			01/23/20 18:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B05-2

Lab Sample ID: 500-176468-10

Date Collected: 01/16/20 12:20

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0011	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Acetone	<0.015		0.015	0.0067	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Carbon disulfide	<0.0039		0.0039	0.00080	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Chloromethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Ethylbenzene	<0.0015		0.0015	0.00074	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Styrene	<0.0015		0.0015	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/17/20 16:30	01/28/20 17:30	1
4-Bromofluorobenzene (Surr)	109		75 - 131	01/17/20 16:30	01/28/20 17:30	1
Dibromofluoromethane	89		75 - 126	01/17/20 16:30	01/28/20 17:30	1
Toluene-d8 (Surr)	102		75 - 124	01/17/20 16:30	01/28/20 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B05-2

Lab Sample ID: 500-176468-10

Date Collected: 01/16/20 12:20

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Benzo[a]anthracene	0.0080	J	0.037	0.0050	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Chrysene	0.051		0.037	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Fluoranthene	0.014	J	0.037	0.0069	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B05-2

Lab Sample ID: 500-176468-10

Date Collected: 01/16/20 12:20

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Phenanthrene	0.056		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Pyrene	0.046		0.037	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		31 - 143				01/27/20 16:55	01/29/20 04:03	1
2-Fluorobiphenyl	112		43 - 145				01/27/20 16:55	01/29/20 04:03	1
2-Fluorophenol	157		31 - 166				01/27/20 16:55	01/29/20 04:03	1
Nitrobenzene-d5	101		37 - 147				01/27/20 16:55	01/29/20 04:03	1
Phenol-d5	130		30 - 153				01/27/20 16:55	01/29/20 04:03	1
Terphenyl-d14	160	X	42 - 157				01/27/20 16:55	01/29/20 04:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.22	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Arsenic	7.8		0.56	0.19	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Barium	23		0.56	0.064	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Beryllium	0.88		0.23	0.053	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Boron	15		2.8	0.26	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Cadmium	0.19		0.11	0.020	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Calcium	29000	B	11	1.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Chromium	18		0.56	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Cobalt	8.9		0.28	0.074	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Copper	27		0.56	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Iron	19000		11	5.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Lead	18		0.28	0.13	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Magnesium	19000		5.6	2.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Manganese	180	B	0.56	0.082	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Nickel	33		0.56	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Potassium	3100		28	10	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Selenium	0.49	J	0.56	0.33	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Silver	2.9		0.28	0.073	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Sodium	820		56	8.3	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Thallium	0.38	J	0.56	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Vanadium	21		0.28	0.066	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1
Zinc	71		1.1	0.49	mg/Kg	☼	01/23/20 16:30	01/24/20 23:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:11	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:11	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B05-2

Lab Sample ID: 500-176468-10

Date Collected: 01/16/20 12:20

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.5

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		01/28/20 15:22	01/29/20 10:11	1
Manganese	0.66		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:11	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.076		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:13	1
Barium	0.25	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:13	1
Beryllium	0.0078		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:13	1
Boron	0.21		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:13	1
Calcium	26		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:13	1
Chromium	0.14		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:13	1
Cobalt	0.053		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:13	1
Iron	150		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:13	1
Lead	0.10		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:13	1
Manganese	0.53		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:13	1
Nickel	0.21		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:13	1
Potassium	33		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:13	1
Silver	0.013	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:13	1
Zinc	0.59		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:13	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		01/28/20 15:22	01/30/20 10:56	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		01/25/20 16:06	01/27/20 18:34	1
Thallium	0.0044		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00046		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0062	mg/Kg	☼	01/28/20 14:30	01/29/20 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.25	mg/Kg	☼	01/30/20 09:40	01/30/20 14:17	1
pH	8.1		0.2	0.2	SU			01/23/20 19:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B06-1

Lab Sample ID: 500-176468-11

Date Collected: 01/16/20 12:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/17/20 16:30	01/28/20 17:55	1
4-Bromofluorobenzene (Surr)	112		75 - 131	01/17/20 16:30	01/28/20 17:55	1
Dibromofluoromethane	89		75 - 126	01/17/20 16:30	01/28/20 17:55	1
Toluene-d8 (Surr)	101		75 - 124	01/17/20 16:30	01/28/20 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B06-1

Lab Sample ID: 500-176468-11

Date Collected: 01/16/20 12:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B06-1

Lab Sample ID: 500-176468-11

Date Collected: 01/16/20 12:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		31 - 143				01/27/20 16:55	01/29/20 13:59	1
2-Fluorobiphenyl	104		43 - 145				01/27/20 16:55	01/29/20 13:59	1
2-Fluorophenol	109		31 - 166				01/27/20 16:55	01/29/20 13:59	1
Nitrobenzene-d5	96		37 - 147				01/27/20 16:55	01/29/20 13:59	1
Phenol-d5	111		30 - 153				01/27/20 16:55	01/29/20 13:59	1
Terphenyl-d14	132		42 - 157				01/27/20 16:55	01/29/20 13:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	1.1	0.22	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Arsenic	11		0.56	0.19	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Barium	32		0.56	0.063	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Beryllium	0.96		0.22	0.052	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Boron	15		2.8	0.26	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Cadmium	0.18		0.11	0.020	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Calcium	27000	B	11	1.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Chromium	18		0.56	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Cobalt	16		0.28	0.073	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Copper	30		0.56	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Iron	22000		11	5.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Lead	20		0.28	0.13	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Magnesium	20000		5.6	2.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Manganese	350	B	0.56	0.081	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Nickel	41		0.56	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Potassium	3000		28	9.8	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Silver	3.1		0.28	0.072	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Sodium	730		56	8.2	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Thallium	0.85		0.56	0.28	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Vanadium	22		0.28	0.066	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1
Zinc	72		1.1	0.49	mg/Kg	☼	01/23/20 16:30	01/24/20 23:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:24	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B06-1

Lab Sample ID: 500-176468-11

Date Collected: 01/16/20 12:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.2

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		01/28/20 15:22	01/29/20 10:24	1
Manganese	0.91		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.096		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:17	1
Barium	0.30	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:17	1
Beryllium	0.0084		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:17	1
Boron	0.23		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:17	1
Calcium	26		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:17	1
Chromium	0.14		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:17	1
Cobalt	0.050		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:17	1
Iron	160		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:17	1
Lead	0.093		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:17	1
Manganese	0.56		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:17	1
Nickel	0.23		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:17	1
Potassium	33		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:17	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:17	1
Silver	0.013	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:17	1
Zinc	0.67		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:17	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		01/28/20 15:22	01/30/20 11:02	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		01/25/20 16:06	01/27/20 18:36	1
Thallium	0.0079		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00052		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0064	mg/Kg	☼	01/28/20 14:30	01/29/20 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.24	mg/Kg	☼	01/30/20 09:40	01/30/20 14:17	1
pH	8.7		0.2	0.2	SU			01/23/20 19:04	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B06-2

Lab Sample ID: 500-176468-12

Date Collected: 01/16/20 12:35

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	01/17/20 16:30	01/28/20 18:20	1
4-Bromofluorobenzene (Surr)	113		75 - 131	01/17/20 16:30	01/28/20 18:20	1
Dibromofluoromethane	85		75 - 126	01/17/20 16:30	01/28/20 18:20	1
Toluene-d8 (Surr)	103		75 - 124	01/17/20 16:30	01/28/20 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B06-2

Lab Sample ID: 500-176468-12

Date Collected: 01/16/20 12:35

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Chrysene	0.042		0.038	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Fluoranthene	0.0097 J		0.038	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B06-2

Lab Sample ID: 500-176468-12

Date Collected: 01/16/20 12:35

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Phenanthrene	0.12		0.038	0.0053	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Pyrene	0.028	J	0.038	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		31 - 143				01/27/20 16:55	01/29/20 16:02	1
2-Fluorobiphenyl	105		43 - 145				01/27/20 16:55	01/29/20 16:02	1
2-Fluorophenol	109		31 - 166				01/27/20 16:55	01/29/20 16:02	1
Nitrobenzene-d5	95		37 - 147				01/27/20 16:55	01/29/20 16:02	1
Phenol-d5	109		30 - 153				01/27/20 16:55	01/29/20 16:02	1
Terphenyl-d14	128		42 - 157				01/27/20 16:55	01/29/20 16:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.21	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Arsenic	7.7		0.53	0.18	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Barium	26		0.53	0.061	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Beryllium	0.80		0.21	0.050	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Boron	14		2.7	0.25	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Cadmium	0.19		0.11	0.019	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Calcium	49000	B	53	9.1	mg/Kg	☼	01/23/20 16:30	01/28/20 06:00	5
Chromium	17		0.53	0.26	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Cobalt	10		0.27	0.070	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Copper	29		0.53	0.15	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Iron	18000		11	5.6	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Lead	18		0.27	0.12	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Magnesium	24000		5.3	2.7	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Manganese	200	B	0.53	0.077	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Nickel	30		0.53	0.16	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Potassium	3000		27	9.5	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Selenium	0.48	J	0.53	0.31	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Silver	2.7		0.27	0.069	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Sodium	600		53	7.9	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Thallium	0.27	J	0.53	0.27	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Vanadium	19		0.27	0.063	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1
Zinc	64		1.1	0.47	mg/Kg	☼	01/23/20 16:30	01/24/20 23:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:29	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:29	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B06-2

Lab Sample ID: 500-176468-12

Date Collected: 01/16/20 12:35

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 86.4

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		01/28/20 15:22	01/29/20 10:29	1
Manganese	0.69		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:29	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:21	1
Barium	0.25	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:21	1
Beryllium	0.0068		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:21	1
Boron	0.19		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:21	1
Calcium	25		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:21	1
Chromium	0.13		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:21	1
Cobalt	0.049		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:21	1
Iron	130		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:21	1
Lead	0.093		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:21	1
Manganese	0.42		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:21	1
Nickel	0.18		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:21	1
Potassium	32		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:21	1
Silver	0.011	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:21	1
Zinc	0.48	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:21	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		01/28/20 15:22	01/30/20 11:04	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		01/25/20 16:06	01/27/20 18:38	1
Thallium	0.0033		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00039		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0061	mg/Kg	☼	01/28/20 14:30	01/29/20 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.24	mg/Kg	☼	01/30/20 09:40	01/30/20 14:17	1
pH	8.2		0.2	0.2	SU			01/23/20 19:08	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B07-1

Lab Sample ID: 500-176468-13

Date Collected: 01/16/20 12:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/17/20 16:30	01/28/20 18:45	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/17/20 16:30	01/28/20 18:45	1
Dibromofluoromethane	89		75 - 126	01/17/20 16:30	01/28/20 18:45	1
Toluene-d8 (Surr)	100		75 - 124	01/17/20 16:30	01/28/20 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B07-1

Lab Sample ID: 500-176468-13

Date Collected: 01/16/20 12:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Benzo[a]anthracene	0.019	J	0.037	0.0050	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Benzo[a]pyrene	0.024	J	0.037	0.0071	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Benzo[b]fluoranthene	0.034	J	0.037	0.0080	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Benzo[g,h,i]perylene	0.033	J	0.037	0.012	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Chrysene	0.024	J	0.037	0.010	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Fluoranthene	0.032	J	0.037	0.0068	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B07-1

Lab Sample ID: 500-176468-13

Date Collected: 01/16/20 12:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.015	J	0.037	0.0096	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Phenanthrene	0.013	J	0.037	0.0051	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Pyrene	0.031	J	0.037	0.0073	mg/Kg	☼	01/27/20 16:55	01/30/20 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	35		31 - 143				01/27/20 16:55	01/30/20 12:41	1
2-Fluorobiphenyl	97		43 - 145				01/27/20 16:55	01/30/20 12:41	1
2-Fluorophenol	115		31 - 166				01/27/20 16:55	01/30/20 12:41	1
Nitrobenzene-d5	85		37 - 147				01/27/20 16:55	01/30/20 12:41	1
Phenol-d5	116		30 - 153				01/27/20 16:55	01/30/20 12:41	1
Terphenyl-d14	119		42 - 157				01/27/20 16:55	01/30/20 12:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Arsenic	10		0.58	0.20	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Barium	41		0.58	0.066	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Beryllium	0.98		0.23	0.054	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Boron	15		2.9	0.27	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Cadmium	0.23		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Calcium	52000	B	58	9.8	mg/Kg	☼	01/23/20 16:30	01/28/20 06:04	5
Chromium	18		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Cobalt	13		0.29	0.076	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Copper	29		0.58	0.16	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Iron	21000		12	6.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Lead	21		0.29	0.13	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Magnesium	20000		5.8	2.9	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Manganese	280	B	0.58	0.084	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Nickel	35		0.58	0.17	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Potassium	3000		29	10	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Silver	2.9		0.29	0.075	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Sodium	780		58	8.6	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Thallium	0.84		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Vanadium	22		0.29	0.069	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1
Zinc	65		1.2	0.51	mg/Kg	☼	01/23/20 16:30	01/25/20 00:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 10:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:33	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:33	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B07-1

Lab Sample ID: 500-176468-13

Date Collected: 01/16/20 12:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.5

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		01/28/20 15:22	01/29/20 10:33	1
Manganese	0.31		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:33	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:24	1
Barium	0.41	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:24	1
Beryllium	0.0093		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:24	1
Boron	0.21		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:24	1
Calcium	29		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:24	1
Chromium	0.16		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:24	1
Cobalt	0.062		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:24	1
Iron	190		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:24	1
Lead	0.13		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:24	1
Manganese	0.61		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:24	1
Nickel	0.23		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:24	1
Potassium	32		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:24	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:24	1
Silver	0.013	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:24	1
Zinc	0.65		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:24	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		01/28/20 15:22	01/30/20 11:06	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		01/25/20 16:06	01/27/20 18:40	1
Thallium	0.0071		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00043		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0058	mg/Kg	☼	01/28/20 14:30	01/29/20 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.42		0.42	0.21	mg/Kg	☼	01/30/20 09:40	01/30/20 14:18	1
pH	8.7		0.2	0.2	SU			01/23/20 19:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B07-2

Lab Sample ID: 500-176468-14

Date Collected: 01/16/20 12:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	01/17/20 16:30	01/28/20 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/17/20 16:30	01/28/20 11:10	1
4-Bromofluorobenzene (Surr)	111		75 - 131	01/17/20 16:30	01/28/20 11:10	1
Dibromofluoromethane	95		75 - 126	01/17/20 16:30	01/28/20 11:10	1
Toluene-d8 (Surr)	94		75 - 124	01/17/20 16:30	01/28/20 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B07-2

Lab Sample ID: 500-176468-14

Date Collected: 01/16/20 12:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2-Methylnaphthalene	0.090		0.075	0.0068	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Chrysene	0.042		0.037	0.010	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Fluoranthene	0.0096	J	0.037	0.0069	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B07-2

Lab Sample ID: 500-176468-14

Date Collected: 01/16/20 12:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Naphthalene	0.017	J	0.037	0.0057	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Phenanthrene	0.13		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Pyrene	0.054		0.037	0.0074	mg/Kg	☼	01/27/20 16:55	01/30/20 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		31 - 143				01/27/20 16:55	01/30/20 13:04	1
2-Fluorobiphenyl	98		43 - 145				01/27/20 16:55	01/30/20 13:04	1
2-Fluorophenol	104		31 - 166				01/27/20 16:55	01/30/20 13:04	1
Nitrobenzene-d5	90		37 - 147				01/27/20 16:55	01/30/20 13:04	1
Phenol-d5	97		30 - 153				01/27/20 16:55	01/30/20 13:04	1
Terphenyl-d14	123		42 - 157				01/27/20 16:55	01/30/20 13:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.22	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Arsenic	9.2		0.57	0.19	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Barium	20		0.57	0.065	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Beryllium	0.88		0.23	0.053	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Boron	16		2.8	0.26	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Cadmium	0.25		0.11	0.020	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Calcium	45000	B	57	9.6	mg/Kg	☼	01/23/20 16:30	01/28/20 06:08	5
Chromium	17		0.57	0.28	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Cobalt	17		0.28	0.074	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Copper	28		0.57	0.16	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Iron	19000		11	5.9	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Lead	17		0.28	0.13	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Magnesium	23000		5.7	2.8	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Manganese	250	B	0.57	0.082	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Nickel	41		0.57	0.16	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Potassium	3300		28	10	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Selenium	0.83		0.57	0.33	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Silver	2.5		0.28	0.073	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Sodium	480		57	8.4	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Thallium	1.0		0.57	0.28	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Vanadium	20		0.28	0.067	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	1
Zinc	63		1.1	0.50	mg/Kg	☼	01/23/20 16:30	01/25/20 00:05	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		01/28/20 15:22	01/29/20 10:37	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/28/20 15:22	01/29/20 10:37	1
Manganese	0.78		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B07-2

Lab Sample ID: 500-176468-14

Date Collected: 01/16/20 12:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.083		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.037	J	0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:28	1
Barium	0.16	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:28	1
Beryllium	0.0047		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:28	1
Boron	0.17		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:28	1
Calcium	20		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:28	1
Chromium	0.089		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:28	1
Cobalt	0.053		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:28	1
Iron	71		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:28	1
Lead	0.063		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:28	1
Manganese	0.29		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:28	1
Nickel	0.12		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:28	1
Potassium	26		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:28	1
Silver	<0.025		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:28	1
Zinc	0.22	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:28	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		01/28/20 15:22	01/30/20 11:08	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		01/25/20 16:06	01/27/20 18:42	1
Thallium	0.0027		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0061	mg/Kg	☼	01/29/20 14:20	01/30/20 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.24	mg/Kg	☼	01/30/20 09:40	01/30/20 14:18	1
pH	7.9		0.2	0.2	SU			01/23/20 19:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08-1

Lab Sample ID: 500-176468-15

Date Collected: 01/16/20 13:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Acetone	0.0079	J	0.018	0.0077	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	01/17/20 16:30	01/28/20 11:35	1
4-Bromofluorobenzene (Surr)	109		75 - 131	01/17/20 16:30	01/28/20 11:35	1
Dibromofluoromethane	95		75 - 126	01/17/20 16:30	01/28/20 11:35	1
Toluene-d8 (Surr)	93		75 - 124	01/17/20 16:30	01/28/20 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08-1

Lab Sample ID: 500-176468-15

Date Collected: 01/16/20 13:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Bis(2-ethylhexyl) phthalate	0.086	J	0.20	0.075	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Di-n-octyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08-1

Lab Sample ID: 500-176468-15

Date Collected: 01/16/20 13:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Phenol	<0.20		0.20	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	01/27/20 16:55	01/29/20 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		31 - 143				01/27/20 16:55	01/29/20 14:23	1
2-Fluorobiphenyl	78		43 - 145				01/27/20 16:55	01/29/20 14:23	1
2-Fluorophenol	83		31 - 166				01/27/20 16:55	01/29/20 14:23	1
Nitrobenzene-d5	71		37 - 147				01/27/20 16:55	01/29/20 14:23	1
Phenol-d5	82		30 - 153				01/27/20 16:55	01/29/20 14:23	1
Terphenyl-d14	102		42 - 157				01/27/20 16:55	01/29/20 14:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Arsenic	10		0.58	0.20	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Barium	68		0.58	0.066	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Beryllium	1.2		0.23	0.054	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Boron	17		2.9	0.27	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Cadmium	0.13		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Calcium	18000	B	12	2.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Chromium	24		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Cobalt	16		0.29	0.076	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Copper	30		0.58	0.16	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Iron	24000		12	6.1	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Lead	20		0.29	0.13	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Magnesium	16000		5.8	2.9	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Manganese	340	B	0.58	0.084	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Nickel	41		0.58	0.17	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Potassium	3500		29	10	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Silver	3.8		0.29	0.075	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Sodium	800		58	8.6	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Thallium	0.65		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Vanadium	31		0.29	0.069	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1
Zinc	65		1.2	0.51	mg/Kg	☼	01/23/20 16:30	01/25/20 00:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 11:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:41	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:41	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08-1

Lab Sample ID: 500-176468-15

Date Collected: 01/16/20 13:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 78.5

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		01/28/20 15:22	01/29/20 10:41	1
Manganese	0.17		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:41	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.062		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:40	1
Barium	0.67		0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:40	1
Beryllium	0.0098		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:40	1
Boron	0.23		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:40	1
Calcium	27		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:40	1
Chromium	0.20		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:40	1
Cobalt	0.043		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:40	1
Iron	170		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:40	1
Lead	0.084		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:40	1
Manganese	0.61		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:40	1
Nickel	0.20		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:40	1
Potassium	36		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:40	1
Silver	0.012	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:40	1
Zinc	0.55		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:40	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		01/28/20 15:22	01/30/20 11:10	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		01/25/20 16:06	01/27/20 18:44	1
Thallium	0.0058		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00030		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.021	0.0070	mg/Kg	☼	01/29/20 14:20	01/30/20 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	01/30/20 09:40	01/30/20 14:20	1
pH	8.5		0.2	0.2	SU			01/23/20 19:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08-2

Lab Sample ID: 500-176468-16

Date Collected: 01/16/20 13:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	01/17/20 16:30	01/28/20 12:01	1
4-Bromofluorobenzene (Surr)	99		75 - 131	01/17/20 16:30	01/28/20 12:01	1
Dibromofluoromethane	103		75 - 126	01/17/20 16:30	01/28/20 12:01	1
Toluene-d8 (Surr)	94		75 - 124	01/17/20 16:30	01/28/20 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08-2

Lab Sample ID: 500-176468-16

Date Collected: 01/16/20 13:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08-2

Lab Sample ID: 500-176468-16

Date Collected: 01/16/20 13:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1
Pyrene	0.034	J	0.037	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143	01/27/20 16:55	01/29/20 16:26	1
2-Fluorobiphenyl	99		43 - 145	01/27/20 16:55	01/29/20 16:26	1
2-Fluorophenol	101		31 - 166	01/27/20 16:55	01/29/20 16:26	1
Nitrobenzene-d5	88		37 - 147	01/27/20 16:55	01/29/20 16:26	1
Phenol-d5	103		30 - 153	01/27/20 16:55	01/29/20 16:26	1
Terphenyl-d14	120		42 - 157	01/27/20 16:55	01/29/20 16:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Arsenic	12		0.59	0.20	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Barium	35		0.59	0.067	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Beryllium	0.99		0.24	0.055	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Boron	17		2.9	0.27	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Cadmium	0.24		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Calcium	30000	B	12	2.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Chromium	18		0.59	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Cobalt	21		0.29	0.077	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Copper	30		0.59	0.16	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Iron	23000		12	6.1	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Lead	19		0.29	0.14	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Magnesium	19000		5.9	2.9	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Manganese	420	B	0.59	0.085	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Nickel	45		0.59	0.17	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Potassium	3600		29	10	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Selenium	0.78		0.59	0.35	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Silver	3.1		0.29	0.076	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Sodium	540		59	8.7	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Thallium	0.97		0.59	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Vanadium	22		0.29	0.069	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1
Zinc	72		1.2	0.52	mg/Kg	☼	01/23/20 16:30	01/25/20 00:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 11:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:46	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:46	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08-2

Lab Sample ID: 500-176468-16

Date Collected: 01/16/20 13:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.9

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		01/28/20 15:22	01/29/20 10:46	1
Manganese	1.0		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:46	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.080		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:44	1
Barium	0.23	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:44	1
Beryllium	0.0070		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:44	1
Boron	0.17		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:44	1
Calcium	25		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:44	1
Chromium	0.12		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:44	1
Cobalt	0.047		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:44	1
Iron	140		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:44	1
Lead	0.082		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:44	1
Manganese	0.60		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:44	1
Nickel	0.20		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:44	1
Potassium	30		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:44	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:44	1
Silver	0.011	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:44	1
Zinc	0.48	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:44	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		01/28/20 15:22	01/30/20 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/25/20 16:06	01/27/20 18:46	1
Thallium	0.0046		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00038		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	☼	01/29/20 14:20	01/30/20 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	01/30/20 09:40	01/30/20 14:21	1
pH	8.0		0.2	0.2	SU			01/23/20 19:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08 Dup

Lab Sample ID: 500-176468-17

Date Collected: 01/16/20 13:10

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	01/17/20 16:30	01/28/20 12:26	1
4-Bromofluorobenzene (Surr)	102		75 - 131	01/17/20 16:30	01/28/20 12:26	1
Dibromofluoromethane	100		75 - 126	01/17/20 16:30	01/28/20 12:26	1
Toluene-d8 (Surr)	92		75 - 124	01/17/20 16:30	01/28/20 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08 Dup

Lab Sample ID: 500-176468-17

Date Collected: 01/16/20 13:10

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Benzo[g,h,i]perylene	0.016	J	0.037	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Chrysene	0.038		0.037	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08 Dup

Lab Sample ID: 500-176468-17

Date Collected: 01/16/20 13:10

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Phenanthrene	0.010	J	0.037	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Pyrene	0.032	J	0.037	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		31 - 143				01/27/20 16:55	01/29/20 16:51	1
2-Fluorobiphenyl	96		43 - 145				01/27/20 16:55	01/29/20 16:51	1
2-Fluorophenol	97		31 - 166				01/27/20 16:55	01/29/20 16:51	1
Nitrobenzene-d5	87		37 - 147				01/27/20 16:55	01/29/20 16:51	1
Phenol-d5	99		30 - 153				01/27/20 16:55	01/29/20 16:51	1
Terphenyl-d14	118		42 - 157				01/27/20 16:55	01/29/20 16:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.2	0.22	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Arsenic	7.7		0.58	0.20	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Barium	27		0.58	0.066	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Beryllium	0.90		0.23	0.054	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Boron	16		2.9	0.27	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Cadmium	0.23		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Calcium	28000	B	12	1.9	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Chromium	18		0.58	0.28	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Cobalt	15		0.29	0.075	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Copper	28		0.58	0.16	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Iron	19000		12	6.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Lead	17		0.29	0.13	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Magnesium	20000		5.8	2.9	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Manganese	260	B	0.58	0.083	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Nickel	36		0.58	0.17	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Potassium	3500		29	10	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Selenium	0.55	J	0.58	0.34	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Silver	3.0		0.29	0.074	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Sodium	530		58	8.5	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Thallium	0.85		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Vanadium	21		0.29	0.068	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1
Zinc	69		1.2	0.50	mg/Kg	☼	01/23/20 16:30	01/25/20 00:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 11:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:50	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:50	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B08 Dup

Lab Sample ID: 500-176468-17

Date Collected: 01/16/20 13:10

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 85.8

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		01/28/20 15:22	01/29/20 10:50	1
Manganese	0.86		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:50	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.072		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:48	1
Barium	0.27	J	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:48	1
Beryllium	0.0081		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:48	1
Boron	0.23		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:48	1
Calcium	27		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:48	1
Chromium	0.15		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:48	1
Cobalt	0.057		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:48	1
Iron	150		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:48	1
Lead	0.091		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:48	1
Manganese	0.63		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:48	1
Nickel	0.21		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:48	1
Potassium	39		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:48	1
Silver	0.013	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:48	1
Zinc	0.54		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:48	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		01/28/20 15:22	01/30/20 11:15	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		01/25/20 16:06	01/27/20 18:48	1
Thallium	0.0052		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00030		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.018	0.0061	mg/Kg	☼	01/29/20 14:20	01/30/20 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/30/20 09:40	01/30/20 14:21	1
pH	8.0		0.2	0.2	SU			01/23/20 19:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B09-1

Lab Sample ID: 500-176468-18

Date Collected: 01/16/20 13:20

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Acetone	0.0096	J	0.019	0.0084	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	01/17/20 16:30	01/28/20 12:52	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/17/20 16:30	01/28/20 12:52	1
Dibromofluoromethane	101		75 - 126	01/17/20 16:30	01/28/20 12:52	1
Toluene-d8 (Surr)	92		75 - 124	01/17/20 16:30	01/28/20 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B09-1

Lab Sample ID: 500-176468-18

Date Collected: 01/16/20 13:20

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2-Methylnaphthalene	0.0075	J	0.079	0.0072	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Acenaphthene	0.020	J	0.039	0.0071	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Acenaphthylene	0.039		0.039	0.0052	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Anthracene	0.089		0.039	0.0066	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Benzo[a]anthracene	0.21		0.039	0.0053	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Benzo[a]pyrene	0.33		0.039	0.0076	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Benzo[b]fluoranthene	0.39		0.039	0.0085	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Benzo[g,h,i]perylene	0.21		0.039	0.013	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Benzo[k]fluoranthene	0.17		0.039	0.012	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Chrysene	0.22		0.039	0.011	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Dibenz(a,h)anthracene	0.044		0.039	0.0076	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Fluoranthene	0.40		0.039	0.0073	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Fluorene	0.025	J	0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B09-1

Lab Sample ID: 500-176468-18

Date Collected: 01/16/20 13:20

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.17		0.039	0.010	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Naphthalene	0.0063	J	0.039	0.0060	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Phenanthrene	0.24		0.039	0.0055	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Pyrene	0.38		0.039	0.0078	mg/Kg	☼	01/27/20 16:55	01/30/20 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	49		31 - 143				01/27/20 16:55	01/30/20 13:28	1
2-Fluorobiphenyl	86		43 - 145				01/27/20 16:55	01/30/20 13:28	1
2-Fluorophenol	88		31 - 166				01/27/20 16:55	01/30/20 13:28	1
Nitrobenzene-d5	76		37 - 147				01/27/20 16:55	01/30/20 13:28	1
Phenol-d5	91		30 - 153				01/27/20 16:55	01/30/20 13:28	1
Terphenyl-d14	118		42 - 157				01/27/20 16:55	01/30/20 13:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Arsenic	8.3		0.58	0.20	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Barium	82		0.58	0.066	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Beryllium	1.1		0.23	0.054	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Boron	11		2.9	0.27	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Cadmium	0.21		0.12	0.021	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Calcium	13000	B	12	2.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Chromium	21		0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Cobalt	14		0.29	0.076	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Copper	25		0.58	0.16	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Iron	22000		12	6.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Lead	41		0.29	0.13	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Magnesium	9300		5.8	2.9	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Manganese	370	B	0.58	0.084	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Nickel	32		0.58	0.17	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Potassium	2600		29	10	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Selenium	0.57	J	0.58	0.34	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Silver	3.7		0.29	0.075	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Sodium	470		58	8.6	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Thallium	0.30	J	0.58	0.29	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Vanadium	30		0.29	0.068	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1
Zinc	64		1.2	0.51	mg/Kg	☼	01/23/20 16:30	01/25/20 00:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 11:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:54	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B09-1

Lab Sample ID: 500-176468-18

Date Collected: 01/16/20 13:20

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.7

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		01/28/20 15:22	01/29/20 10:54	1
Manganese	0.13		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:54	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:52	1
Barium	0.54		0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:52	1
Beryllium	0.0067		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:52	1
Boron	0.14		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:52	1
Calcium	28		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:52	1
Chromium	0.13		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:52	1
Cobalt	0.031		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:52	1
Iron	130		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:52	1
Lead	0.17		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:52	1
Manganese	0.55		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:52	1
Nickel	0.15		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:52	1
Potassium	21		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:52	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:52	1
Silver	<0.025		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:52	1
Zinc	0.39	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:52	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		01/28/20 15:22	01/30/20 11:17	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		01/25/20 16:06	01/27/20 18:54	1
Thallium	0.0030		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00030		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0065	mg/Kg	☼	01/29/20 14:20	01/30/20 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.30	mg/Kg	☼	01/30/20 09:40	01/30/20 14:22	1
pH	8.3		0.2	0.2	SU			01/23/20 19:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B09-2

Lab Sample ID: 500-176468-19

Date Collected: 01/16/20 13:25

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	01/17/20 16:30	01/28/20 13:17	1
4-Bromofluorobenzene (Surr)	103		75 - 131	01/17/20 16:30	01/28/20 13:17	1
Dibromofluoromethane	101		75 - 126	01/17/20 16:30	01/28/20 13:17	1
Toluene-d8 (Surr)	92		75 - 124	01/17/20 16:30	01/28/20 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B09-2

Lab Sample ID: 500-176468-19

Date Collected: 01/16/20 13:25

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Butyl benzyl phthalate	0.28		0.19	0.073	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B09-2

Lab Sample ID: 500-176468-19

Date Collected: 01/16/20 13:25

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		31 - 143				01/27/20 16:55	01/29/20 14:48	1
2-Fluorobiphenyl	81		43 - 145				01/27/20 16:55	01/29/20 14:48	1
2-Fluorophenol	83		31 - 166				01/27/20 16:55	01/29/20 14:48	1
Nitrobenzene-d5	71		37 - 147				01/27/20 16:55	01/29/20 14:48	1
Phenol-d5	90		30 - 153				01/27/20 16:55	01/29/20 14:48	1
Terphenyl-d14	117		42 - 157				01/27/20 16:55	01/29/20 14:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.2	0.23	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Arsenic	8.0		0.60	0.21	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Barium	46		0.60	0.069	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Beryllium	1.0		0.24	0.056	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Boron	18		3.0	0.28	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Cadmium	0.14		0.12	0.022	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Calcium	48000	B	60	10	mg/Kg	☼	01/23/20 16:30	01/28/20 06:12	5
Chromium	21		0.60	0.30	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Cobalt	14		0.30	0.079	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Copper	22		0.60	0.17	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Iron	21000		12	6.3	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Lead	14		0.30	0.14	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Magnesium	21000		6.0	3.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Manganese	270	B	0.60	0.087	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Nickel	33		0.60	0.18	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Potassium	3500		30	11	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Selenium	0.47	J	0.60	0.35	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Silver	3.2		0.30	0.078	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Sodium	1100		60	8.9	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Vanadium	27		0.30	0.071	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1
Zinc	61		1.2	0.53	mg/Kg	☼	01/23/20 16:30	01/25/20 00:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 11:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 10:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:59	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 10:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B09-2

Lab Sample ID: 500-176468-19

Date Collected: 01/16/20 13:25

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 81.8

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		01/28/20 15:22	01/29/20 10:59	1
Manganese	0.31		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:59	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.080		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 17:56	1
Barium	0.53		0.50	0.050	mg/L		01/25/20 16:06	01/28/20 17:56	1
Beryllium	0.0094		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 17:56	1
Boron	0.23		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 17:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 17:56	1
Calcium	54		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:56	1
Chromium	0.18		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:56	1
Cobalt	0.049		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:56	1
Iron	190		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 17:56	1
Lead	0.095		0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 17:56	1
Manganese	0.64		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:56	1
Nickel	0.21		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:56	1
Potassium	34		2.5	0.50	mg/L		01/25/20 16:06	01/28/20 17:56	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 17:56	1
Silver	0.016 J		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 17:56	1
Zinc	0.81		0.50	0.020	mg/L		01/25/20 16:06	01/28/20 17:56	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		01/28/20 15:22	01/30/20 11:19	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		01/25/20 16:06	01/27/20 18:56	1
Thallium	0.0043		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00033		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.0065	mg/Kg	☼	01/29/20 14:20	01/30/20 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.43		0.43	0.22	mg/Kg	☼	01/30/20 09:40	01/30/20 14:22	1
pH	8.2		0.2	0.2	SU			01/23/20 19:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B10-1

Lab Sample ID: 500-176468-20

Date Collected: 01/16/20 13:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	01/17/20 16:30	01/28/20 13:42	1
4-Bromofluorobenzene (Surr)	101		75 - 131	01/17/20 16:30	01/28/20 13:42	1
Dibromofluoromethane	100		75 - 126	01/17/20 16:30	01/28/20 13:42	1
Toluene-d8 (Surr)	94		75 - 124	01/17/20 16:30	01/28/20 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B10-1

Lab Sample ID: 500-176468-20

Date Collected: 01/16/20 13:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Acenaphthene	0.0092	J	0.041	0.0074	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Anthracene	0.029	J	0.041	0.0069	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Benzo[a]anthracene	0.088		0.041	0.0056	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Benzo[a]pyrene	0.095		0.041	0.0080	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Benzo[b]fluoranthene	0.12		0.041	0.0089	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Benzo[g,h,i]perylene	0.044		0.041	0.013	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Benzo[k]fluoranthene	0.047		0.041	0.012	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Chrysene	0.091		0.041	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Dibenz(a,h)anthracene	0.015	J	0.041	0.0080	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Fluoranthene	0.18		0.041	0.0077	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Fluorene	0.012	J	0.041	0.0058	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B10-1

Lab Sample ID: 500-176468-20

Date Collected: 01/16/20 13:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.043		0.041	0.011	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Phenanthrene	0.11		0.041	0.0058	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Pyrene	0.16		0.041	0.0082	mg/Kg	☼	01/27/20 16:55	01/29/20 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		31 - 143				01/27/20 16:55	01/29/20 15:12	1
2-Fluorobiphenyl	92		43 - 145				01/27/20 16:55	01/29/20 15:12	1
2-Fluorophenol	98		31 - 166				01/27/20 16:55	01/29/20 15:12	1
Nitrobenzene-d5	81		37 - 147				01/27/20 16:55	01/29/20 15:12	1
Phenol-d5	102		30 - 153				01/27/20 16:55	01/29/20 15:12	1
Terphenyl-d14	125		42 - 157				01/27/20 16:55	01/29/20 15:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.2	0.24	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Arsenic	9.1		0.61	0.21	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Barium	96		0.61	0.069	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Beryllium	1.2		0.24	0.057	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Boron	11		3.0	0.28	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Cadmium	0.16		0.12	0.022	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Calcium	7200	B	12	2.1	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Chromium	24		0.61	0.30	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Cobalt	17		0.30	0.080	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Copper	26		0.61	0.17	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Iron	24000		12	6.3	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Lead	63		0.30	0.14	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Magnesium	6800		6.1	3.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Manganese	410	B	0.61	0.088	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Nickel	39		0.61	0.18	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Potassium	2700		30	11	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Selenium	0.41	J	0.61	0.36	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Silver	4.2		0.30	0.078	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Sodium	1300		61	9.0	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Vanadium	35		0.30	0.072	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1
Zinc	73		1.2	0.53	mg/Kg	☼	01/23/20 16:30	01/25/20 00:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/28/20 15:22	01/30/20 11:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/28/20 15:22	01/29/20 11:03	1
Chromium	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:03	1
Iron	<0.40		0.40	0.20	mg/L		01/28/20 15:22	01/29/20 11:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B10-1

Lab Sample ID: 500-176468-20

Date Collected: 01/16/20 13:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 78.3

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		01/28/20 15:22	01/29/20 11:03	1
Manganese	0.26		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:03	1
Nickel	<0.025		0.025	0.010	mg/L		01/28/20 15:22	01/29/20 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.064		0.050	0.010	mg/L		01/25/20 16:06	01/28/20 18:00	1
Barium	0.71	F1	0.50	0.050	mg/L		01/25/20 16:06	01/28/20 18:00	1
Beryllium	0.0087		0.0040	0.0040	mg/L		01/25/20 16:06	01/28/20 18:00	1
Boron	0.16		0.10	0.050	mg/L		01/25/20 16:06	01/28/20 18:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:06	01/28/20 18:00	1
Calcium	24	F1	2.5	0.50	mg/L		01/25/20 16:06	01/28/20 18:00	1
Chromium	0.17	F1	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 18:00	1
Cobalt	0.033		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 18:00	1
Iron	160		0.40	0.20	mg/L		01/25/20 16:06	01/28/20 18:00	1
Lead	0.11	F1	0.0075	0.0075	mg/L		01/25/20 16:06	01/28/20 18:00	1
Manganese	0.57		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 18:00	1
Nickel	0.20		0.025	0.010	mg/L		01/25/20 16:06	01/28/20 18:00	1
Potassium	23	F1	2.5	0.50	mg/L		01/25/20 16:06	01/28/20 18:00	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:06	01/28/20 18:00	1
Silver	0.011	J	0.025	0.010	mg/L		01/25/20 16:06	01/28/20 18:00	1
Zinc	0.41	J	0.50	0.020	mg/L		01/25/20 16:06	01/28/20 18:00	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		01/28/20 15:22	01/30/20 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		01/25/20 16:06	01/27/20 18:58	1
Thallium	0.0034		0.0020	0.0020	mg/L		01/25/20 16:06	01/27/20 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00082		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.020	0.0067	mg/Kg	☼	01/29/20 14:20	01/30/20 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.26	mg/Kg	☼	01/30/20 09:40	01/30/20 14:22	1
pH	8.4		0.2	0.2	SU			01/23/20 19:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B10-2

Lab Sample ID: 500-176468-21

Date Collected: 01/16/20 13:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	01/17/20 16:30	01/28/20 14:08	1
4-Bromofluorobenzene (Surr)	101		75 - 131	01/17/20 16:30	01/28/20 14:08	1
Dibromofluoromethane	99		75 - 126	01/17/20 16:30	01/28/20 14:08	1
Toluene-d8 (Surr)	93		75 - 124	01/17/20 16:30	01/28/20 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B10-2

Lab Sample ID: 500-176468-21

Date Collected: 01/16/20 13:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Benzo[a]anthracene	0.013	J	0.039	0.0052	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Benzo[b]fluoranthene	0.019	J	0.039	0.0084	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Chrysene	0.015	J	0.039	0.011	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Fluoranthene	0.027	J	0.039	0.0072	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B10-2

Lab Sample ID: 500-176468-21

Date Collected: 01/16/20 13:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Phenanthrene	0.012	J	0.039	0.0054	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Pyrene	0.023	J	0.039	0.0077	mg/Kg	☼	01/27/20 19:03	01/28/20 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		31 - 143				01/27/20 19:03	01/28/20 19:10	1
2-Fluorobiphenyl	100		43 - 145				01/27/20 19:03	01/28/20 19:10	1
2-Fluorophenol	132		31 - 166				01/27/20 19:03	01/28/20 19:10	1
Nitrobenzene-d5	85		37 - 147				01/27/20 19:03	01/28/20 19:10	1
Phenol-d5	110		30 - 153				01/27/20 19:03	01/28/20 19:10	1
Terphenyl-d14	143		42 - 157				01/27/20 19:03	01/28/20 19:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.22	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Arsenic	9.0		0.58	0.20	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Barium	37		0.58	0.066	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Beryllium	0.92		0.23	0.054	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Boron	16		2.9	0.27	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Cadmium	0.21		0.12	0.021	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Calcium	47000	B	58	9.8	mg/Kg	☼	01/23/20 16:32	01/27/20 12:03	5
Chromium	19		0.58	0.29	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Cobalt	14		0.29	0.076	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Copper	26		0.58	0.16	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Iron	21000		12	6.0	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Lead	18		0.29	0.13	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Magnesium	22000		5.8	2.9	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Manganese	320	B	0.58	0.084	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Nickel	35		0.58	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Potassium	3200		29	10	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Silver	3.1		0.29	0.075	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Sodium	910		58	8.6	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Thallium	0.55	J	0.58	0.29	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Vanadium	23		0.29	0.068	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1
Zinc	69		1.2	0.51	mg/Kg	☼	01/23/20 16:32	01/25/20 00:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 11:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 11:02	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:02	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 11:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B10-2

Lab Sample ID: 500-176468-21

Date Collected: 01/16/20 13:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 84.8

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		01/29/20 15:11	01/30/20 11:02	1
Manganese	0.55		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:02	1
Nickel	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 18:36	1
Barium	0.41	J	0.50	0.050	mg/L		01/25/20 16:08	01/28/20 18:36	1
Beryllium	0.0088		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 18:36	1
Boron	0.21		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 18:36	1
Calcium	42		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 18:36	1
Chromium	0.16		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:36	1
Cobalt	0.063		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:36	1
Iron	160		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 09:13	1
Lead	0.11		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 18:36	1
Manganese	0.75		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:36	1
Nickel	0.25		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:36	1
Potassium	35		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 18:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 18:36	1
Silver	0.015	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:36	1
Zinc	0.76		0.50	0.020	mg/L		01/25/20 16:08	01/28/20 18:36	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		01/29/20 15:11	01/30/20 11:51	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		01/25/20 16:08	01/27/20 19:11	1
Thallium	0.0074		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00029		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0072	J	0.018	0.0061	mg/Kg	☼	01/29/20 14:20	01/30/20 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.28	mg/Kg	☼	01/29/20 13:05	01/29/20 15:26	1
pH	8.0		0.2	0.2	SU			01/23/20 19:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B11-1

Lab Sample ID: 500-176468-22

Date Collected: 01/16/20 14:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/17/20 16:30	01/28/20 14:34	1
4-Bromofluorobenzene (Surr)	104		75 - 131	01/17/20 16:30	01/28/20 14:34	1
Dibromofluoromethane	99		75 - 126	01/17/20 16:30	01/28/20 14:34	1
Toluene-d8 (Surr)	92		75 - 124	01/17/20 16:30	01/28/20 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B11-1

Lab Sample ID: 500-176468-22

Date Collected: 01/16/20 14:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Anthracene	0.0071	J	0.039	0.0066	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Benzo[a]anthracene	0.048		0.039	0.0053	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Benzo[a]pyrene	0.063		0.039	0.0077	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Benzo[b]fluoranthene	0.059		0.039	0.0086	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Benzo[g,h,i]perylene	0.028	J	0.039	0.013	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Benzo[k]fluoranthene	0.024	J	0.039	0.012	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Chrysene	0.052		0.039	0.011	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Fluoranthene	0.066		0.039	0.0074	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B11-1

Lab Sample ID: 500-176468-22

Date Collected: 01/16/20 14:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.023	J	0.039	0.010	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Phenanthrene	0.070		0.039	0.0055	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Pyrene	0.057		0.039	0.0079	mg/Kg	☼	01/27/20 19:03	01/29/20 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		31 - 143				01/27/20 19:03	01/29/20 21:23	1
2-Fluorobiphenyl	85		43 - 145				01/27/20 19:03	01/29/20 21:23	1
2-Fluorophenol	106		31 - 166				01/27/20 19:03	01/29/20 21:23	1
Nitrobenzene-d5	81		37 - 147				01/27/20 19:03	01/29/20 21:23	1
Phenol-d5	94		30 - 153				01/27/20 19:03	01/29/20 21:23	1
Terphenyl-d14	86		42 - 157				01/27/20 19:03	01/29/20 21:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	1.2	0.23	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Arsenic	8.6		0.59	0.20	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Barium	80		0.59	0.067	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Beryllium	1.1		0.23	0.055	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Boron	15		2.9	0.27	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Cadmium	0.20		0.12	0.021	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Calcium	50000	B	59	9.9	mg/Kg	☼	01/23/20 16:32	01/27/20 12:07	5
Chromium	22		0.59	0.29	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Cobalt	14		0.29	0.077	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Copper	25		0.59	0.16	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Iron	21000		12	6.1	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Lead	33		0.29	0.14	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Magnesium	17000		5.9	2.9	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Manganese	350	B	0.59	0.085	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Nickel	35		0.59	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Potassium	3000		29	10	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Selenium	0.46	J	0.59	0.34	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Silver	3.9		0.29	0.076	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Sodium	660		59	8.7	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Vanadium	31		0.29	0.069	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1
Zinc	61		1.2	0.51	mg/Kg	☼	01/23/20 16:32	01/25/20 01:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 12:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 12:33	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:33	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 12:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B11-1

Lab Sample ID: 500-176468-22

Date Collected: 01/16/20 14:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.0075	0.0075	mg/L		01/29/20 15:11	01/30/20 12:33	1
Manganese	0.33		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:33	1
Nickel	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.084		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 18:40	1
Barium	0.76		0.50	0.050	mg/L		01/25/20 16:08	01/28/20 18:40	1
Beryllium	0.010		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 18:40	1
Boron	0.22		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 18:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 18:40	1
Calcium	59		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 18:40	1
Chromium	0.20		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:40	1
Cobalt	0.044		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:40	1
Iron	180		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 09:17	1
Lead	0.11		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 18:40	1
Manganese	0.65		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:40	1
Nickel	0.22		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:40	1
Potassium	32		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 18:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 18:40	1
Silver	0.013	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:40	1
Zinc	0.50		0.50	0.020	mg/L		01/25/20 16:08	01/28/20 18:40	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		01/29/20 15:11	01/30/20 12:18	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		01/25/20 16:08	01/27/20 19:13	1
Thallium	0.0036		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	F1	0.018	0.0059	mg/Kg	☼	01/29/20 14:20	01/30/20 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.27	mg/Kg	☼	01/29/20 13:05	01/29/20 15:26	1
pH	8.6		0.2	0.2	SU			01/23/20 19:52	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B11-2

Lab Sample ID: 500-176468-23

Date Collected: 01/16/20 14:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	01/17/20 16:30	01/28/20 14:59	1
4-Bromofluorobenzene (Surr)	99		75 - 131	01/17/20 16:30	01/28/20 14:59	1
Dibromofluoromethane	100		75 - 126	01/17/20 16:30	01/28/20 14:59	1
Toluene-d8 (Surr)	93		75 - 124	01/17/20 16:30	01/28/20 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B11-2

Lab Sample ID: 500-176468-23

Date Collected: 01/16/20 14:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Benzo[g,h,i]perylene	0.013	J	0.038	0.012	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Benzo[k]fluoranthene	0.012	J	0.038	0.011	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Chrysene	0.015	J	0.038	0.010	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B11-2

Lab Sample ID: 500-176468-23

Date Collected: 01/16/20 14:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Pyrene	0.017	J	0.038	0.0076	mg/Kg	☼	01/27/20 19:03	01/28/20 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		31 - 143				01/27/20 19:03	01/28/20 20:09	1
2-Fluorobiphenyl	100		43 - 145				01/27/20 19:03	01/28/20 20:09	1
2-Fluorophenol	133		31 - 166				01/27/20 19:03	01/28/20 20:09	1
Nitrobenzene-d5	86		37 - 147				01/27/20 19:03	01/28/20 20:09	1
Phenol-d5	111		30 - 153				01/27/20 19:03	01/28/20 20:09	1
Terphenyl-d14	136		42 - 157				01/27/20 19:03	01/28/20 20:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.2	0.23	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Arsenic	8.9		0.59	0.20	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Barium	33		0.59	0.067	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Beryllium	0.91		0.24	0.055	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Boron	16		2.9	0.27	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Cadmium	0.21		0.12	0.021	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Calcium	50000	B	59	10	mg/Kg	☼	01/23/20 16:32	01/27/20 12:11	5
Chromium	18		0.59	0.29	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Cobalt	12		0.29	0.077	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Copper	27		0.59	0.16	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Iron	22000		12	6.1	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Lead	18		0.29	0.14	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Magnesium	23000		5.9	2.9	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Manganese	290	B	0.59	0.085	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Nickel	34		0.59	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Potassium	3200		29	10	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Selenium	0.51	J	0.59	0.35	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Silver	3.1		0.29	0.076	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Sodium	390		59	8.7	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Thallium	0.40	J	0.59	0.29	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Vanadium	22		0.29	0.069	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1
Zinc	70		1.2	0.52	mg/Kg	☼	01/23/20 16:32	01/25/20 01:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 12:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 12:38	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:38	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 12:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B11-2

Lab Sample ID: 500-176468-23

Date Collected: 01/16/20 14:05

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0094		0.0075	0.0075	mg/L		01/29/20 15:11	01/30/20 12:38	1
Manganese	1.7		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:38	1
Nickel	0.012	J	0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.098		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 18:44	1
Barium	0.40	J	0.50	0.050	mg/L		01/25/20 16:08	01/28/20 18:44	1
Beryllium	0.0083		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 18:44	1
Boron	0.22		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 18:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 18:44	1
Calcium	46		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 18:44	1
Chromium	0.15		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:44	1
Cobalt	0.073		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:44	1
Iron	190		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 09:21	1
Lead	0.11		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 18:44	1
Manganese	0.92		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:44	1
Nickel	0.25		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:44	1
Potassium	33		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 18:44	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 18:44	1
Silver	0.013	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 18:44	1
Zinc	0.80		0.50	0.020	mg/L		01/25/20 16:08	01/28/20 18:44	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		01/29/20 15:11	01/30/20 12:20	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		01/25/20 16:08	01/27/20 19:21	1
Thallium	0.0057		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00040		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0064	mg/Kg	☼	01/29/20 14:20	01/30/20 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/29/20 13:05	01/29/20 15:27	1
pH	8.3		0.2	0.2	SU			01/23/20 19:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B14-1

Lab Sample ID: 500-176468-29

Date Collected: 01/16/20 14:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Carbon disulfide	<0.0042		0.0042	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	01/17/20 16:30	01/28/20 17:31	1
4-Bromofluorobenzene (Surr)	86		75 - 131	01/17/20 16:30	01/28/20 17:31	1
Dibromofluoromethane	99		75 - 126	01/17/20 16:30	01/28/20 17:31	1
Toluene-d8 (Surr)	92		75 - 124	01/17/20 16:30	01/28/20 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B14-1

Lab Sample ID: 500-176468-29

Date Collected: 01/16/20 14:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B14-1

Lab Sample ID: 500-176468-29

Date Collected: 01/16/20 14:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/27/20 19:03	01/28/20 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		31 - 143				01/27/20 19:03	01/28/20 23:07	1
2-Fluorobiphenyl	102		43 - 145				01/27/20 19:03	01/28/20 23:07	1
2-Fluorophenol	132		31 - 166				01/27/20 19:03	01/28/20 23:07	1
Nitrobenzene-d5	87		37 - 147				01/27/20 19:03	01/28/20 23:07	1
Phenol-d5	108		30 - 153				01/27/20 19:03	01/28/20 23:07	1
Terphenyl-d14	153		42 - 157				01/27/20 19:03	01/28/20 23:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.23	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Arsenic	8.3		0.60	0.21	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Barium	50		0.60	0.069	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Beryllium	0.96		0.24	0.056	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Boron	15		3.0	0.28	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Cadmium	0.16		0.12	0.022	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Calcium	59000	B	60	10	mg/Kg	☼	01/23/20 16:32	01/27/20 12:27	5
Chromium	20		0.60	0.30	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Cobalt	12		0.30	0.079	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Copper	26		0.60	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Iron	20000		12	6.3	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Lead	15		0.30	0.14	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Magnesium	21000		6.0	3.0	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Manganese	280	B	0.60	0.087	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Nickel	33		0.60	0.18	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Potassium	2900		30	11	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Silver	3.3		0.30	0.078	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Sodium	680		60	8.9	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Thallium	0.37	J	0.60	0.30	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Vanadium	26		0.30	0.071	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1
Zinc	54		1.2	0.53	mg/Kg	☼	01/23/20 16:32	01/25/20 01:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 12:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 12:46	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:46	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 12:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B14-1

Lab Sample ID: 500-176468-29

Date Collected: 01/16/20 14:45

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.8

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		01/29/20 15:11	01/30/20 12:46	1
Manganese	0.71		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:46	1
Nickel	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.092		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 19:07	1
Barium	0.73		0.50	0.050	mg/L		01/25/20 16:08	01/28/20 19:07	1
Beryllium	0.010		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 19:07	1
Boron	0.22		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 19:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 19:07	1
Calcium	77		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:07	1
Chromium	0.20		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:07	1
Cobalt	0.052		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:07	1
Iron	210		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 09:53	1
Lead	0.10		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 19:07	1
Manganese	0.76		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:07	1
Nickel	0.25		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:07	1
Potassium	33		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 19:07	1
Silver	0.018	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:07	1
Zinc	0.60		0.50	0.020	mg/L		01/25/20 16:08	01/28/20 19:07	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		01/29/20 15:11	01/30/20 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/25/20 16:08	01/27/20 19:33	1
Thallium	0.0038		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00035		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0060	mg/Kg	☼	01/29/20 14:20	01/30/20 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.29	mg/Kg	☼	01/29/20 13:05	01/29/20 15:30	1
pH	8.7		0.2	0.2	SU			01/23/20 20:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B14-2

Lab Sample ID: 500-176468-30

Date Collected: 01/16/20 14:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	01/17/20 16:30	01/28/20 17:56	1
4-Bromofluorobenzene (Surr)	97		75 - 131	01/17/20 16:30	01/28/20 17:56	1
Dibromofluoromethane	95		75 - 126	01/17/20 16:30	01/28/20 17:56	1
Toluene-d8 (Surr)	121		75 - 124	01/17/20 16:30	01/28/20 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B14-2

Lab Sample ID: 500-176468-30

Date Collected: 01/16/20 14:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B14-2

Lab Sample ID: 500-176468-30

Date Collected: 01/16/20 14:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/27/20 19:03	01/28/20 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		31 - 143				01/27/20 19:03	01/28/20 23:37	1
2-Fluorobiphenyl	90		43 - 145				01/27/20 19:03	01/28/20 23:37	1
2-Fluorophenol	122		31 - 166				01/27/20 19:03	01/28/20 23:37	1
Nitrobenzene-d5	77		37 - 147				01/27/20 19:03	01/28/20 23:37	1
Phenol-d5	105		30 - 153				01/27/20 19:03	01/28/20 23:37	1
Terphenyl-d14	144		42 - 157				01/27/20 19:03	01/28/20 23:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Arsenic	7.6		0.58	0.20	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Barium	46		0.58	0.066	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Beryllium	0.90		0.23	0.054	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Boron	16		2.9	0.27	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Cadmium	0.19		0.12	0.021	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Calcium	63000	B	58	9.8	mg/Kg	☼	01/23/20 16:32	01/27/20 12:31	5
Chromium	19		0.58	0.29	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Cobalt	14		0.29	0.076	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Copper	22		0.58	0.16	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Iron	19000		12	6.0	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Lead	14		0.29	0.13	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Magnesium	20000		5.8	2.9	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Manganese	340	B	0.58	0.084	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Nickel	36		0.58	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Potassium	3200		29	10	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Silver	3.2		0.29	0.075	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Sodium	470		58	8.6	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Thallium	0.48	J	0.58	0.29	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Vanadium	25		0.29	0.068	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1
Zinc	55		1.2	0.51	mg/Kg	☼	01/23/20 16:32	01/25/20 01:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 11:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 11:30	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:30	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 11:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B14-2

Lab Sample ID: 500-176468-30

Date Collected: 01/16/20 14:50

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 83.8

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		01/29/20 15:11	01/30/20 11:30	1
Manganese	0.31		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:30	1
Nickel	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.079		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 19:19	1
Barium	0.46	J	0.50	0.050	mg/L		01/25/20 16:08	01/28/20 19:19	1
Beryllium	0.0076		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 19:19	1
Boron	0.21		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 19:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 19:19	1
Calcium	74		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:19	1
Chromium	0.16		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:19	1
Cobalt	0.035		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:19	1
Iron	190		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 09:56	1
Lead	0.080		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 19:19	1
Manganese	0.57		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:19	1
Nickel	0.16		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:19	1
Potassium	34		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 19:19	1
Silver	0.014	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:19	1
Zinc	0.39	J	0.50	0.020	mg/L		01/25/20 16:08	01/28/20 19:19	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		01/29/20 15:11	01/30/20 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/25/20 16:08	01/27/20 19:35	1
Thallium	0.0023		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00039		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.019	0.0063	mg/Kg	☼	01/29/20 14:20	01/30/20 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.28	mg/Kg	☼	01/29/20 13:05	01/29/20 15:30	1
pH	8.5		0.2	0.2	SU			01/23/20 20:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B15-1

Lab Sample ID: 500-176468-31

Date Collected: 01/16/20 14:55

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00064	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00052	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
2-Butanone (MEK)	<0.0037		0.0037	0.0017	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.0011	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Acetone	<0.015		0.015	0.0065	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Carbon disulfide	<0.0037		0.0037	0.00078	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Chlorobenzene	<0.0015		0.0015	0.00055	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Chloroethane	<0.0037		0.0037	0.0011	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Chloroform	<0.0015		0.0015	0.00052	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Chloromethane	<0.0037		0.0037	0.0015	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Ethylbenzene	<0.0015		0.0015	0.00071	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Tetrachloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00066	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Trichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Vinyl chloride	<0.0015		0.0015	0.00066	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	01/17/20 16:30	01/29/20 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/17/20 16:30	01/29/20 12:40	1
4-Bromofluorobenzene (Surr)	105		75 - 131	01/17/20 16:30	01/29/20 12:40	1
Dibromofluoromethane	92		75 - 126	01/17/20 16:30	01/29/20 12:40	1
Toluene-d8 (Surr)	99		75 - 124	01/17/20 16:30	01/29/20 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B15-1

Lab Sample ID: 500-176468-31

Date Collected: 01/16/20 14:55

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2,4-Dinitrophenol	<0.72		0.72	0.62	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2-Methylnaphthalene	<0.072		0.072	0.0065	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Benzo[a]anthracene	0.030	J	0.035	0.0048	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Benzo[a]pyrene	0.048		0.035	0.0069	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Benzo[b]fluoranthene	0.052		0.035	0.0077	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Benzo[g,h,i]perylene	0.021	J	0.035	0.011	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Benzo[k]fluoranthene	0.017	J	0.035	0.010	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Chrysene	0.040		0.035	0.0097	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Fluoranthene	0.070		0.035	0.0066	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B15-1

Lab Sample ID: 500-176468-31

Date Collected: 01/16/20 14:55

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.019	J	0.035	0.0092	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.043	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Phenanthrene	0.030	J	0.035	0.0049	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Pyrene	0.059		0.035	0.0070	mg/Kg	☼	01/27/20 19:03	01/29/20 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		31 - 143				01/27/20 19:03	01/29/20 21:53	1
2-Fluorobiphenyl	93		43 - 145				01/27/20 19:03	01/29/20 21:53	1
2-Fluorophenol	120		31 - 166				01/27/20 19:03	01/29/20 21:53	1
Nitrobenzene-d5	79		37 - 147				01/27/20 19:03	01/29/20 21:53	1
Phenol-d5	97		30 - 153				01/27/20 19:03	01/29/20 21:53	1
Terphenyl-d14	136		42 - 157				01/27/20 19:03	01/29/20 21:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.0	0.20	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Arsenic	5.5		0.52	0.18	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Barium	57		0.52	0.060	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Beryllium	0.84		0.21	0.049	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Boron	15		2.6	0.24	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Cadmium	0.16		0.10	0.019	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Calcium	56000	B	52	8.9	mg/Kg	☼	01/23/20 16:32	01/27/20 12:35	5
Chromium	19		0.52	0.26	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Cobalt	9.7		0.26	0.069	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Copper	18		0.52	0.15	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Iron	17000		10	5.4	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Lead	17		0.26	0.12	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Magnesium	17000		5.2	2.6	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Manganese	230	B	0.52	0.076	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Nickel	28		0.52	0.15	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Potassium	3100		26	9.3	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Silver	3.0		0.26	0.068	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Sodium	570		52	7.8	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Vanadium	24		0.26	0.062	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1
Zinc	52		1.0	0.46	mg/Kg	☼	01/23/20 16:32	01/25/20 01:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 11:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 11:35	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:35	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 11:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B15-1

Lab Sample ID: 500-176468-31

Date Collected: 01/16/20 14:55

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 90.4

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		01/29/20 15:11	01/30/20 11:35	1
Manganese	0.053		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:35	1
Nickel	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.089		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 19:23	1
Barium	0.73		0.50	0.050	mg/L		01/25/20 16:08	01/28/20 19:23	1
Beryllium	0.011		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 19:23	1
Boron	0.24		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 19:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 19:23	1
Calcium	79		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:23	1
Chromium	0.21		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:23	1
Cobalt	0.057		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:23	1
Iron	200		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 10:00	1
Lead	0.15		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 19:23	1
Manganese	0.82		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:23	1
Nickel	0.25		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:23	1
Potassium	40		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:23	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 19:23	1
Silver	0.020	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:23	1
Zinc	0.61		0.50	0.020	mg/L		01/25/20 16:08	01/28/20 19:23	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		01/29/20 15:11	01/30/20 12:03	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		01/25/20 16:08	01/27/20 19:41	1
Thallium	0.0035		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0057	mg/Kg	☼	01/29/20 14:20	01/30/20 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.26	mg/Kg	☼	01/29/20 13:05	01/29/20 15:30	1
pH	8.7		0.2	0.2	SU			01/23/20 20:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B15-2

Lab Sample ID: 500-176468-32

Date Collected: 01/16/20 15:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	01/17/20 16:30	01/28/20 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/17/20 16:30	01/28/20 18:47	1
4-Bromofluorobenzene (Surr)	93		75 - 131	01/17/20 16:30	01/28/20 18:47	1
Dibromofluoromethane	94		75 - 126	01/17/20 16:30	01/28/20 18:47	1
Toluene-d8 (Surr)	124		75 - 124	01/17/20 16:30	01/28/20 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B15-2

Lab Sample ID: 500-176468-32

Date Collected: 01/16/20 15:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Acenaphthene	0.0072	J	0.039	0.0071	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Anthracene	0.023	J	0.039	0.0066	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Benzo[a]anthracene	0.15		0.039	0.0053	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Benzo[a]pyrene	0.21		0.039	0.0076	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Benzo[b]fluoranthene	0.28		0.039	0.0085	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Benzo[g,h,i]perylene	0.083		0.039	0.013	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Benzo[k]fluoranthene	0.11		0.039	0.012	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Chrysene	0.17		0.039	0.011	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Dibenz(a,h)anthracene	0.021	J	0.039	0.0076	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Fluoranthene	0.35		0.039	0.0073	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B15-2

Lab Sample ID: 500-176468-32

Date Collected: 01/16/20 15:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.084		0.039	0.010	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Phenanthrene	0.14		0.039	0.0055	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Pyrene	0.29		0.039	0.0078	mg/Kg	☼	01/27/20 19:03	01/29/20 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		31 - 143				01/27/20 19:03	01/29/20 00:36	1
2-Fluorobiphenyl	103		43 - 145				01/27/20 19:03	01/29/20 00:36	1
2-Fluorophenol	130		31 - 166				01/27/20 19:03	01/29/20 00:36	1
Nitrobenzene-d5	88		37 - 147				01/27/20 19:03	01/29/20 00:36	1
Phenol-d5	113		30 - 153				01/27/20 19:03	01/29/20 00:36	1
Terphenyl-d14	160	X	42 - 157				01/27/20 19:03	01/29/20 00:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.2	0.23	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Arsenic	7.6		0.60	0.21	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Barium	56		0.60	0.068	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Beryllium	0.89		0.24	0.056	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Boron	14		3.0	0.28	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Cadmium	0.16		0.12	0.022	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Calcium	51000	B	60	10	mg/Kg	☼	01/23/20 16:32	01/27/20 12:39	5
Chromium	19		0.60	0.30	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Cobalt	14		0.30	0.079	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Copper	23		0.60	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Iron	19000		12	6.2	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Lead	21		0.30	0.14	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Magnesium	18000		6.0	3.0	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Manganese	370	B	0.60	0.087	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Nickel	36		0.60	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Potassium	3100		30	11	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Silver	3.1		0.30	0.077	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Sodium	460		60	8.9	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Vanadium	25		0.30	0.071	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1
Zinc	55		1.2	0.53	mg/Kg	☼	01/23/20 16:32	01/25/20 01:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 11:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 11:39	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:39	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 11:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

Client Sample ID: 2955V-18-B15-2

Lab Sample ID: 500-176468-32

Date Collected: 01/16/20 15:00

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0077		0.0075	0.0075	mg/L		01/29/20 15:11	01/30/20 11:39	1
Manganese	0.099		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:39	1
Nickel	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.077		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 19:27	1
Barium	0.53		0.50	0.050	mg/L		01/25/20 16:08	01/28/20 19:27	1
Beryllium	0.0082		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 19:27	1
Boron	0.19		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 19:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 19:27	1
Calcium	52		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:27	1
Chromium	0.16		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:27	1
Cobalt	0.046		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:27	1
Iron	190		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 10:04	1
Lead	0.10		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 19:27	1
Manganese	0.61		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:27	1
Nickel	0.20		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:27	1
Potassium	33		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:27	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 19:27	1
Silver	0.014	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:27	1
Zinc	0.38	J	0.50	0.020	mg/L		01/25/20 16:08	01/28/20 19:27	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		01/29/20 15:11	01/30/20 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/25/20 16:08	01/27/20 19:43	1
Thallium	0.0037		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00026		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 11:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0064	mg/Kg	☼	01/29/20 14:20	01/30/20 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.22	mg/Kg	☼	01/29/20 13:05	01/29/20 15:31	1
pH	8.4		0.2	0.2	SU			01/23/20 20:29	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176468-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance 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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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 500-176468 COC 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>AG7-33A</u>					COC No.: <u>1</u> of <u>3</u>			
										Project No.: <u>PT13/20: 184-006/33A</u>					Lab Job No.: <u>500-176468</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.					ANALYSES										Sample Temp: <u>4.1, 3.9, 1.6, 4.4</u>			
															Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other			
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix														
1	2955V-18-1301	1/16	1130	S	X	X					X	X	X	X	X			
2	2955V-18-1302-1	↓	1135															
3	2955V-18-1302-2		1140															
4	2955V-18-1303-1		1145															
5	2955V-18-1303-2		1150															
6	2955V-18-1303-Dup		1155															
7	2955V-18-1304-1		1200															
8	2955V-18-1304-2		1205															
9	2955V-18-1305-1		1215															
10	2955V-18-1305-2		1220															
11	2955V-18-1306-1		1230															
Relinquished by: <u>Ant Low</u>					Date/Time: <u>1/16 1700</u>					Received by: <u>Paul Buckley TA</u>					Date/Time: <u>1/16/20 1700</u>			
Relinquished by:					Date/Time:					Received by:					Date/Time:			
Relinquished by:					Date/Time:					Received by:					Date/Time:			

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>AE7-33A</u>	COC No.: <u>2</u> of <u>3</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: 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>PT13/WO: 184-006/33A</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 <u>Chud Nelson / Josh Hey</u>	Lab Job No.: <u>500-176468</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.		Analyses	Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
12	2955V-18-1306-2	1/16	1235	S	X	X						X	X	X	X	X			
13	2955V-18-1307-1	↓	1245																
14	2955V-18-1307-2		1250																
15	2955V-18-1308-1		1300																
16	2955V-18-1308-2		1305																
17	2955V-18-1308-Dup		1310																
18	2955V-18-1309-1		1320																
19	2955V-18-1309-2		1325																
20	2955V-18-1310-1		1345																
21	2955V-18-1310-2		1350																
22	2955V-18-1311-1		1400																

Relinquished by: <u>M. Nelson</u>	Date/Time: <u>1/16 1700</u>	Received by: <u>Patricia Buckley TH</u>	Date/Time: <u>1/16/20 1700</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>ACT-33A</u>	COC No.: <u>3</u> of <u>3</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: 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>PTB/WO:184-006/33A</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 <u>Chad Nelson / Josh Hey</u>	Lab Job No.: <u>500-176468</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.			Sample Temp:
		Analyses	Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments	
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization		
23	2955V-18-B11-2	1/16	1405	S	X	X						X	X	X	X	X		
24	2955V-18-B12-1		1410															
25	2955V-18-B12-2		1420															
26	2955V-18-B13-1		1430															
27	2955V-18-B13-2		1435															
28	2955V-18-B13-048		1440															
29	2955V-18-B14-1		1445															
30	2955V-18-B14-2		1450															
31	2955V-18-B15-1		1455															
32	2955V-18-B15-2		1500															

Relinquished by: <u>Dick Wright</u>	Date/Time: <u>1/16 1700</u>	Received by: <u>Chad Nelson</u>	Date/Time: <u>1/16/20 1700</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1516 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79016 Longitude: - 87.88922

(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 21

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-20-B01 WAS SAMPLED ADJACENT TO SITE 2955V-20. SEE TABLE 3d AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176585-1.

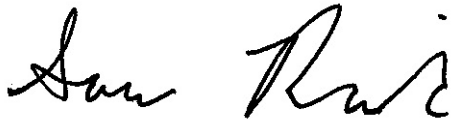
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-20
Mixed-use Building

Sample ID	2955V-20-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-3					
Sample Date	1/20/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.1					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176585-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/6/2020 4:22:58 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
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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176585-1

Client Sample ID: 2955V-20-B01

Lab Sample ID: 500-176585-1

Date Collected: 01/20/20 11:25

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/20/20 17:45	01/30/20 15:37	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/20/20 17:45	01/30/20 15:37	1
Dibromofluoromethane	101		75 - 126	01/20/20 17:45	01/30/20 15:37	1
Toluene-d8 (Surr)	91		75 - 124	01/20/20 17:45	01/30/20 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176585-1

Client Sample ID: 2955V-20-B01

Lab Sample ID: 500-176585-1

Date Collected: 01/20/20 11:25

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
4-Nitrophenol	<0.77 *		0.77	0.37	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Fluoranthene	0.040		0.038	0.0071	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176585-1

Client Sample ID: 2955V-20-B01

Lab Sample ID: 500-176585-1

Date Collected: 01/20/20 11:25

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Phenanthrene	0.011	J	0.038	0.0053	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Pyrene	0.011	J	0.038	0.0076	mg/Kg	☼	01/29/20 18:13	01/30/20 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	107		31 - 143				01/29/20 18:13	01/30/20 14:01	1
2-Fluorobiphenyl	95		43 - 145				01/29/20 18:13	01/30/20 14:01	1
2-Fluorophenol	100		31 - 166				01/29/20 18:13	01/30/20 14:01	1
Nitrobenzene-d5	93		37 - 147				01/29/20 18:13	01/30/20 14:01	1
Phenol-d5	76		30 - 153				01/29/20 18:13	01/30/20 14:01	1
Terphenyl-d14	132		42 - 157				01/29/20 18:13	01/30/20 14:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.1	0.22	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Arsenic	10		0.56	0.19	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Barium	23		0.56	0.064	mg/Kg	☼	01/28/20 06:11	01/30/20 17:17	1
Beryllium	0.79		0.22	0.052	mg/Kg	☼	01/28/20 06:11	01/30/20 17:17	1
Boron	12		2.8	0.26	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Calcium	34000		11	1.9	mg/Kg	☼	01/28/20 06:11	01/30/20 17:17	1
Chromium	12		0.56	0.28	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Cobalt	11		0.28	0.074	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Copper	36		0.56	0.16	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Iron	20000		11	5.8	mg/Kg	☼	01/28/20 06:11	01/30/20 17:17	1
Lead	17		0.28	0.13	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Magnesium	24000		5.6	2.8	mg/Kg	☼	01/28/20 06:11	01/30/20 17:17	1
Manganese	330		0.56	0.081	mg/Kg	☼	01/28/20 06:11	01/30/20 17:17	1
Nickel	30		0.56	0.16	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Potassium	2600		28	9.9	mg/Kg	☼	01/28/20 06:11	01/30/20 17:17	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Silver	0.19	J	0.28	0.072	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Sodium	320		56	8.3	mg/Kg	☼	01/28/20 06:11	01/30/20 17:17	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Vanadium	16		0.28	0.066	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1
Zinc	54		1.1	0.49	mg/Kg	☼	01/28/20 06:11	01/30/20 03:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 11:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 11:05	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 11:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 11:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176585-1

Client Sample ID: 2955V-20-B01

Lab Sample ID: 500-176585-1

Date Collected: 01/20/20 11:25

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:05	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.062		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 12:34	1
Barium	0.25	J	0.50	0.050	mg/L		02/02/20 15:59	02/03/20 12:34	1
Beryllium	0.0046		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 12:34	1
Boron	0.15		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 12:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 12:34	1
Calcium	23		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:34	1
Chromium	0.095		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:34	1
Cobalt	0.035		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:34	1
Iron	120		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 12:34	1
Lead	0.049		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 12:34	1
Manganese	0.41		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:34	1
Nickel	0.14		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:34	1
Potassium	25		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 12:34	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:34	1
Zinc	0.33	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 12:34	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		02/02/20 16:06	02/04/20 18:35	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		02/02/20 15:59	02/03/20 13:51	1
Thallium	0.0066		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.00020	mg/L		02/05/20 10:20	02/06/20 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	B	0.019	0.0062	mg/Kg	☼	01/31/20 14:45	02/04/20 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	☼	01/30/20 13:10	01/30/20 15:18	1
pH	8.1		0.2	0.2	SU			02/03/20 15:03	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176585-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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>AET-33A</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	Project No.: <u>PTB/WD: 184-006/33A</u>	Lab Job No.: 500-176585
500-176585 COC	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 <u>Josh Hey</u>	Sample Temp: 3.5 48qt.
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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.		Analyses	Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments		
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
1	2955V-80-201	1/20	1125	S	X	X						X	X	X	X	X			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/20 1430</u>	Received by: <u>Stephanie Hammond</u> TA	Date/Time: <u>1/20 1435</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1508-1510 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79016 Longitude: - 87.88887
(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: 0310575115 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 43

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-21-B01 WAS SAMPLED ADJACENT TO SITE 2955V-21. SEE TABLE 3e AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176586-1.

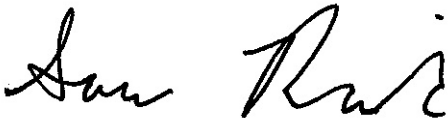
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

**ISGS Site 2955V-21
Commercial Building**

Sample ID	2955V-21-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-3					
Sample Date	1/20/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.2					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176586-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/6/2020 4:26:02 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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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176586-1

Client Sample ID: 2955V-21-B01

Lab Sample ID: 500-176586-1

Date Collected: 01/20/20 11:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Acetone	0.011	J	0.017	0.0073	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1
Xylenes, Total	<0.0033		0.0033	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	01/20/20 17:45	01/30/20 16:02	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/20/20 17:45	01/30/20 16:02	1
Dibromofluoromethane	104		75 - 126	01/20/20 17:45	01/30/20 16:02	1
Toluene-d8 (Surr)	90		75 - 124	01/20/20 17:45	01/30/20 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176586-1

Client Sample ID: 2955V-21-B01

Lab Sample ID: 500-176586-1

Date Collected: 01/20/20 11:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
4-Nitrophenol	<0.78 *		0.78	0.37	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176586-1

Client Sample ID: 2955V-21-B01

Lab Sample ID: 500-176586-1

Date Collected: 01/20/20 11:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/29/20 18:13	01/30/20 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		31 - 143				01/29/20 18:13	01/30/20 14:29	1
2-Fluorobiphenyl	72		43 - 145				01/29/20 18:13	01/30/20 14:29	1
2-Fluorophenol	79		31 - 166				01/29/20 18:13	01/30/20 14:29	1
Nitrobenzene-d5	73		37 - 147				01/29/20 18:13	01/30/20 14:29	1
Phenol-d5	64		30 - 153				01/29/20 18:13	01/30/20 14:29	1
Terphenyl-d14	125		42 - 157				01/29/20 18:13	01/30/20 14:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J F1	1.2	0.23	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Arsenic	6.0		0.58	0.20	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Barium	63		0.58	0.067	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Beryllium	0.96		0.23	0.055	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Boron	18		2.9	0.27	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Cadmium	0.20	B	0.12	0.021	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Calcium	88000	B	120	20	mg/Kg	☼	01/27/20 07:36	01/30/20 15:06	10
Chromium	21		0.58	0.29	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Cobalt	12		0.29	0.077	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Copper	20		0.58	0.16	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Iron	19000		12	6.1	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Lead	13		0.29	0.13	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Magnesium	20000		5.8	2.9	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Manganese	300		0.58	0.085	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Nickel	33		0.58	0.17	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Potassium	3200		29	10	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Selenium	<0.58	F1	0.58	0.34	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Silver	2.8		0.29	0.075	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Sodium	500		58	8.6	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Vanadium	28		0.29	0.069	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	1
Zinc	53		1.2	0.51	mg/Kg	☼	01/27/20 07:36	01/30/20 02:07	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		02/02/20 16:06	02/03/20 11:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:22	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 11:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 11:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176586-1

Client Sample ID: 2955V-21-B01

Lab Sample ID: 500-176586-1

Date Collected: 01/20/20 11:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.4		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:22	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042	J	0.050	0.010	mg/L		02/02/20 15:59	02/03/20 12:39	1
Barium	0.52		0.50	0.050	mg/L		02/02/20 15:59	02/03/20 12:39	1
Beryllium	0.0058		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 12:39	1
Boron	0.19		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 12:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 12:39	1
Calcium	52		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:39	1
Chromium	0.14		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:39	1
Cobalt	0.051		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:39	1
Iron	120		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 12:39	1
Lead	0.048		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 12:39	1
Manganese	0.97		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:39	1
Nickel	0.15		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:39	1
Potassium	28		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 12:39	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:39	1
Zinc	0.34	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 12:39	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		02/02/20 16:06	02/04/20 18:43	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		02/02/20 15:59	02/03/20 13:53	1
Thallium	0.0029		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020	0.00020	mg/L		02/05/20 10:20	02/06/20 10:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049	B	0.018	0.0060	mg/Kg	☼	01/31/20 14:45	02/04/20 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.26	mg/Kg	☼	01/30/20 13:10	01/30/20 15:18	1
pH	8.2		0.2	0.2	SU			02/03/20 15:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176586-1

Client Sample ID: Trip Blank #2

Lab Sample ID: 500-176586-2

Date Collected: 01/20/20 11:15

Matrix: Solid

Date Received: 01/20/20 14:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
2-Butanone (MEK)	0.0035	J	0.0050	0.0022	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Acetone	0.085		0.020	0.0087	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg		01/20/20 17:45	01/30/20 16:28	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg		01/20/20 17:45	01/30/20 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	01/20/20 17:45	01/30/20 16:28	1
4-Bromofluorobenzene (Surr)	102		75 - 131	01/20/20 17:45	01/30/20 16:28	1
Dibromofluoromethane	99		75 - 126	01/20/20 17:45	01/30/20 16:28	1
Toluene-d8 (Surr)	91		75 - 124	01/20/20 17:45	01/30/20 16:28	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176586-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.


Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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	 500-176586 COC	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>AE7-33A</u> Project No.: <u>PTB/WO: 194-006/33A</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>Josh Hey</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176586</u> Sample Temp: <u>4.6, 3.5</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits.
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES													Matrix Key:			
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments	
	2755V-21-1301	1/20	1435 1152	S	X	X					X	X	X	X	X						
	Top Blank #2	1/20	1152																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/20 1435</u>	Received by: <u>Stephanie Humandery</u>	Date/Time: <u>1/20/20 1435</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1500 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79037 Longitude: - 87.88828
(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: 0311535081 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 103

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-22-B01, 2955V-22-B02 AND 2955V-22-B04 WERE SAMPLED ADJACENT TO SITE 2955V-22. SEE TABLE 3f AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176650-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

**ISGS Site 2955V-22
MAAS Auto**

Sample ID	2955V-22-B01	2955V-22-B02	2955V-22-B04	2955V-22-B04 DUP	Maximum Allowable Concentration				
Sample Depth (ft)	0-3	0-3	0-3	0-3	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	1/21/2020	1/21/2020	1/21/2020	1/21/2020					
PID	0	0	0	0					
Sample pH	7.2	8	8.3	8.1					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176650-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/7/2020 12:32:58 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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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B01

Lab Sample ID: 500-176650-1

Date Collected: 01/21/20 11:15

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00098	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
1,1-Dichloroethene	<0.0023		0.0023	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00081	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Acetone	0.028		0.023	0.010	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Benzene	<0.0023		0.0023	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Bromoform	<0.0023		0.0023	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Bromomethane	<0.0057		0.0057	0.0022	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Carbon tetrachloride	<0.0023 *		0.0023	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Chlorobenzene	<0.0023		0.0023	0.00085	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Chloroform	<0.0023		0.0023	0.00080	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00069	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Dibromochloromethane	<0.0023		0.0023	0.00075	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Methylene Chloride	<0.0057		0.0057	0.0023	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Toluene	<0.0023		0.0023	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1
Xylenes, Total	<0.0046		0.0046	0.00073	mg/Kg	☼	01/21/20 17:25	01/31/20 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	01/21/20 17:25	01/31/20 15:43	1
4-Bromofluorobenzene (Surr)	99		75 - 131	01/21/20 17:25	01/31/20 15:43	1
Dibromofluoromethane	105		75 - 126	01/21/20 17:25	01/31/20 15:43	1
Toluene-d8 (Surr)	88		75 - 124	01/21/20 17:25	01/31/20 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B01

Lab Sample ID: 500-176650-1

Date Collected: 01/21/20 11:15

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2,4-Dinitrophenol	<0.85		0.85	0.75	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2-Methylnaphthalene	<0.085		0.085	0.0078	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Benzo[a]pyrene	0.013	J	0.042	0.0082	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Benzo[b]fluoranthene	0.017	J	0.042	0.0091	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Chrysene	0.012	J	0.042	0.012	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Fluoranthene	0.051		0.042	0.0078	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B01

Lab Sample ID: 500-176650-1

Date Collected: 01/21/20 11:15

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Phenanthrene	0.0076	J	0.042	0.0059	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Pyrene	0.018	J	0.042	0.0084	mg/Kg	☼	01/30/20 13:27	01/31/20 11:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	108		31 - 143				01/30/20 13:27	01/31/20 11:51	1
2-Fluorobiphenyl	91		43 - 145				01/30/20 13:27	01/31/20 11:51	1
2-Fluorophenol	91		31 - 166				01/30/20 13:27	01/31/20 11:51	1
Nitrobenzene-d5	91		37 - 147				01/30/20 13:27	01/31/20 11:51	1
Phenol-d5	69		30 - 153				01/30/20 13:27	01/31/20 11:51	1
Terphenyl-d14	128		42 - 157				01/30/20 13:27	01/31/20 11:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J F1	1.3	0.25	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Arsenic	8.0		0.64	0.22	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Barium	120		0.64	0.073	mg/Kg	☼	01/28/20 17:36	01/31/20 02:02	1
Beryllium	0.93		0.26	0.060	mg/Kg	☼	01/28/20 17:36	01/31/20 02:02	1
Boron	5.0	F1	3.2	0.30	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Cadmium	<0.13	F1	0.13	0.023	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Calcium	2500	F1	13	2.2	mg/Kg	☼	01/28/20 17:36	01/31/20 02:02	1
Chromium	20		0.64	0.32	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Cobalt	14		0.32	0.084	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Copper	16		0.64	0.18	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Iron	22000	B	13	6.7	mg/Kg	☼	01/28/20 17:36	01/31/20 02:02	1
Lead	19	F1	0.32	0.15	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Magnesium	3500		6.4	3.2	mg/Kg	☼	01/28/20 17:36	01/31/20 02:02	1
Manganese	630	F2 B	0.64	0.093	mg/Kg	☼	01/28/20 17:36	01/31/20 02:02	1
Nickel	21		0.64	0.19	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Potassium	1800	F1	32	11	mg/Kg	☼	01/28/20 17:36	01/31/20 02:02	1
Selenium	0.79	F1	0.64	0.38	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Silver	0.24	J	0.32	0.083	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Sodium	430		64	9.5	mg/Kg	☼	01/28/20 17:36	01/31/20 02:02	1
Thallium	<0.64	F1	0.64	0.32	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Vanadium	33		0.32	0.076	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	1
Zinc	46		1.3	0.56	mg/Kg	☼	01/28/20 17:36	01/30/20 04:58	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		02/05/20 15:35	02/06/20 09:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:41	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/20 15:35	02/06/20 09:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B01

Lab Sample ID: 500-176650-1

Date Collected: 01/21/20 11:15

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.26		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:41	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.032	J	0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:34	1
Barium	0.65		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:34	1
Beryllium	0.0052		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:34	1
Boron	0.083	J	0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:34	1
Calcium	16		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:34	1
Chromium	0.15		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:34	1
Cobalt	0.039		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:34	1
Iron	120		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:34	1
Lead	0.051		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:34	1
Manganese	0.64		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:34	1
Nickel	0.11		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:34	1
Potassium	17		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:34	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:34	1
Zinc	0.27	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:34	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		02/05/20 15:35	02/06/20 12:00	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		02/02/20 16:01	02/03/20 14:42	1
Thallium	0.0024		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.022	0.0072	mg/Kg	☼	02/05/20 14:00	02/06/20 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	01/30/20 13:10	01/30/20 15:15	1
pH	7.2		0.2	0.2	SU			01/28/20 16:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B02

Lab Sample ID: 500-176650-2

Date Collected: 01/21/20 11:05

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Carbon tetrachloride	<0.0019 *		0.0019	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/21/20 17:25	01/31/20 16:09	1
4-Bromofluorobenzene (Surr)	93		75 - 131	01/21/20 17:25	01/31/20 16:09	1
Dibromofluoromethane	113		75 - 126	01/21/20 17:25	01/31/20 16:09	1
Toluene-d8 (Surr)	86		75 - 124	01/21/20 17:25	01/31/20 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
1,4-Dichlorobenzene	<0.22		0.22	0.056	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B02

Lab Sample ID: 500-176650-2

Date Collected: 01/21/20 11:05

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2,4-Dimethylphenol	<0.43		0.43	0.17	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2,4-Dinitrophenol	<0.88		0.88	0.77	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2,4-Dinitrotoluene	<0.22		0.22	0.069	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2,6-Dinitrotoluene	<0.22		0.22	0.086	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2-Chlorophenol	<0.22		0.22	0.074	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2-Methylnaphthalene	<0.088		0.088	0.0080	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2-Methylphenol	<0.22		0.22	0.070	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2-Nitroaniline	<0.22		0.22	0.059	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
3 & 4 Methylphenol	<0.22		0.22	0.073	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.061	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
3-Nitroaniline	<0.43		0.43	0.14	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
4,6-Dinitro-2-methylphenol	<0.88		0.88	0.35	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
4-Chloroaniline	<0.88		0.88	0.20	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.051	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
4-Nitrophenol	<0.88		0.88	0.42	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Acenaphthene	<0.043		0.043	0.0078	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Acenaphthylene	<0.043		0.043	0.0058	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Anthracene	<0.043		0.043	0.0073	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Benzo[a]anthracene	<0.043		0.043	0.0059	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Benzo[a]pyrene	<0.043		0.043	0.0084	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Benzo[b]fluoranthene	<0.043		0.043	0.0094	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.080	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Butyl benzyl phthalate	<0.22		0.22	0.083	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0084	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Diethyl phthalate	<0.22		0.22	0.074	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Dimethyl phthalate	<0.22		0.22	0.057	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Di-n-octyl phthalate	<0.22		0.22	0.071	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Fluoranthene	0.043		0.043	0.0081	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Fluorene	<0.043		0.043	0.0061	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Hexachlorobenzene	<0.088		0.088	0.010	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Hexachlorobutadiene	<0.22		0.22	0.069	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Hexachlorocyclopentadiene	<0.88		0.88	0.25	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Hexachloroethane	<0.22		0.22	0.066	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B02

Lab Sample ID: 500-176650-2

Date Collected: 01/21/20 11:05

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Naphthalene	<0.043		0.043	0.0067	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
N-Nitrosodi-n-propylamine	<0.088		0.088	0.053	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Pentachlorophenol	<0.88		0.88	0.70	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Phenanthrene	0.0081	J	0.043	0.0061	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Phenol	<0.22		0.22	0.097	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Pyrene	<0.043		0.043	0.0087	mg/Kg	☼	01/30/20 13:27	01/31/20 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	110		31 - 143				01/30/20 13:27	01/31/20 12:19	1
2-Fluorobiphenyl	90		43 - 145				01/30/20 13:27	01/31/20 12:19	1
2-Fluorophenol	91		31 - 166				01/30/20 13:27	01/31/20 12:19	1
Nitrobenzene-d5	89		37 - 147				01/30/20 13:27	01/31/20 12:19	1
Phenol-d5	69		30 - 153				01/30/20 13:27	01/31/20 12:19	1
Terphenyl-d14	131		42 - 157				01/30/20 13:27	01/31/20 12:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.98	J	1.3	0.25	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Arsenic	7.7		0.65	0.22	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Barium	140		0.65	0.074	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Beryllium	1.5		0.26	0.061	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Boron	11		3.3	0.30	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Cadmium	<0.13		0.13	0.024	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Calcium	2200		13	2.2	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Chromium	30		0.65	0.32	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Cobalt	16		0.33	0.086	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Copper	23		0.65	0.18	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Iron	29000	B	13	6.8	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Lead	17		0.33	0.15	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Magnesium	7700		6.5	3.2	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Manganese	330		0.65	0.095	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Nickel	42		0.65	0.19	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Potassium	3300		33	12	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Selenium	0.78		0.65	0.38	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Silver	0.28	J	0.33	0.084	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Sodium	320		65	9.7	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Thallium	<0.65		0.65	0.33	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Vanadium	40		0.33	0.077	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	1
Zinc	71		1.3	0.57	mg/Kg	☼	01/28/20 17:36	01/30/20 05:33	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		02/05/20 15:35	02/06/20 09:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:45	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/20 15:35	02/06/20 09:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B02

Lab Sample ID: 500-176650-2

Date Collected: 01/21/20 11:05

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.6		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:45	1
Nickel	0.015	J	0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.029	J	0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:39	1
Barium	0.70		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:39	1
Beryllium	0.0063		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:39	1
Boron	0.16		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:39	1
Calcium	11		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:39	1
Chromium	0.15		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:39	1
Cobalt	0.036		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:39	1
Iron	120		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:39	1
Lead	0.044		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:39	1
Manganese	0.76		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:39	1
Nickel	0.13		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:39	1
Potassium	21		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:39	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:39	1
Zinc	0.23	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:39	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		02/05/20 15:35	02/06/20 12:02	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		02/02/20 16:01	02/03/20 14:44	1
Thallium	0.0026		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.021	0.0070	mg/Kg	☼	02/05/20 14:00	02/06/20 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.27	mg/Kg	☼	01/30/20 13:10	01/30/20 15:15	1
pH	8.0		0.2	0.2	SU			01/28/20 16:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B04

Lab Sample ID: 500-176650-4

Date Collected: 01/21/20 10:45

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Acetone	0.031		0.017	0.0076	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Benzene	0.00063	J	0.0017	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Carbon tetrachloride	<0.0017	*	0.0017	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	01/21/20 17:25	01/31/20 17:00	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/21/20 17:25	01/31/20 17:00	1
Dibromofluoromethane	103		75 - 126	01/21/20 17:25	01/31/20 17:00	1
Toluene-d8 (Surr)	88		75 - 124	01/21/20 17:25	01/31/20 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B04

Lab Sample ID: 500-176650-4

Date Collected: 01/21/20 10:45

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Benzo[a]pyrene	0.011	J	0.040	0.0077	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Benzo[b]fluoranthene	0.015	J	0.040	0.0086	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Fluoranthene	0.041		0.040	0.0074	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B04

Lab Sample ID: 500-176650-4

Date Collected: 01/21/20 10:45

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Phenanthrene	<0.040		0.040	0.0055	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1
Pyrene	0.011	J	0.040	0.0079	mg/Kg	☼	01/30/20 13:27	01/31/20 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		31 - 143	01/30/20 13:27	01/31/20 14:41	1
2-Fluorobiphenyl	94		43 - 145	01/30/20 13:27	01/31/20 14:41	1
2-Fluorophenol	95		31 - 166	01/30/20 13:27	01/31/20 14:41	1
Nitrobenzene-d5	95		37 - 147	01/30/20 13:27	01/31/20 14:41	1
Phenol-d5	70		30 - 153	01/30/20 13:27	01/31/20 14:41	1
Terphenyl-d14	111		42 - 157	01/30/20 13:27	01/31/20 14:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.2	0.23	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Arsenic	10		0.59	0.20	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Barium	110		0.59	0.068	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Beryllium	1.3		0.24	0.055	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Boron	16		3.0	0.28	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Cadmium	0.41	J B	0.59	0.11	mg/Kg	☼	01/28/20 17:36	01/31/20 02:37	5
Calcium	26000		12	2.0	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Chromium	27		0.59	0.29	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Cobalt	16		0.30	0.078	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Copper	30		0.59	0.17	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Iron	39000	B	59	31	mg/Kg	☼	01/28/20 17:36	01/31/20 02:37	5
Lead	61		1.5	0.68	mg/Kg	☼	01/28/20 17:36	01/31/20 02:37	5
Magnesium	14000		5.9	2.9	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Manganese	400		0.59	0.086	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Nickel	47		3.0	0.86	mg/Kg	☼	01/28/20 17:36	01/31/20 02:37	5
Potassium	3400		30	10	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Selenium	0.52	J	0.59	0.35	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Silver	<1.5		1.5	0.38	mg/Kg	☼	01/28/20 17:36	01/31/20 02:37	5
Sodium	600		59	8.8	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	1
Vanadium	45		1.5	0.35	mg/Kg	☼	01/28/20 17:36	01/31/20 02:37	5
Zinc	99		1.2	0.52	mg/Kg	☼	01/28/20 17:36	01/30/20 05:42	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		02/05/20 15:35	02/06/20 10:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 10:02	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 10:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/20 15:35	02/06/20 10:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B04

Lab Sample ID: 500-176650-4

Date Collected: 01/21/20 10:45

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.055		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 10:02	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.039	J	0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:47	1
Barium	0.53		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:47	1
Beryllium	0.0057		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:47	1
Boron	0.16		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:47	1
Calcium	37		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:47	1
Chromium	0.14		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:47	1
Cobalt	0.029		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:47	1
Iron	120		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:47	1
Lead	0.046		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:47	1
Manganese	0.52		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:47	1
Nickel	0.14		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:47	1
Potassium	23		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:47	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:47	1
Zinc	0.50		0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:47	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		02/05/20 15:35	02/06/20 12:10	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		02/02/20 16:01	02/03/20 14:48	1
Thallium	0.0026		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0066	mg/Kg	☼	02/05/20 14:00	02/06/20 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.42		0.42	0.21	mg/Kg	☼	01/30/20 13:10	01/30/20 15:16	1
pH	8.3		0.2	0.2	SU			01/28/20 16:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B04 Dup

Lab Sample ID: 500-176650-5

Date Collected: 01/21/20 10:50

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Acetone	0.010	J	0.019	0.0083	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Carbon tetrachloride	<0.0019	*	0.0019	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	01/21/20 17:25	01/31/20 17:25	1
4-Bromofluorobenzene (Surr)	101		75 - 131	01/21/20 17:25	01/31/20 17:25	1
Dibromofluoromethane	105		75 - 126	01/21/20 17:25	01/31/20 17:25	1
Toluene-d8 (Surr)	89		75 - 124	01/21/20 17:25	01/31/20 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B04 Dup

Lab Sample ID: 500-176650-5

Date Collected: 01/21/20 10:50

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Benzo[a]anthracene	0.035	J	0.041	0.0056	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Benzo[a]pyrene	0.061		0.041	0.0080	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Benzo[b]fluoranthene	0.095		0.041	0.0089	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Benzo[g,h,i]perylene	0.064		0.041	0.013	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Benzo[k]fluoranthene	0.021	J	0.041	0.012	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Chrysene	0.052		0.041	0.011	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Dibenz(a,h)anthracene	0.013	J	0.041	0.0080	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Fluoranthene	0.10		0.041	0.0077	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B04 Dup

Lab Sample ID: 500-176650-5

Date Collected: 01/21/20 10:50

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.043		0.041	0.011	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Phenanthrene	0.021	J	0.041	0.0058	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Pyrene	0.064		0.041	0.0082	mg/Kg	☼	01/30/20 13:27	01/31/20 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	103		31 - 143				01/30/20 13:27	01/31/20 15:09	1
2-Fluorobiphenyl	96		43 - 145				01/30/20 13:27	01/31/20 15:09	1
2-Fluorophenol	96		31 - 166				01/30/20 13:27	01/31/20 15:09	1
Nitrobenzene-d5	92		37 - 147				01/30/20 13:27	01/31/20 15:09	1
Phenol-d5	74		30 - 153				01/30/20 13:27	01/31/20 15:09	1
Terphenyl-d14	113		42 - 157				01/30/20 13:27	01/31/20 15:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.3	0.25	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Arsenic	9.6		0.64	0.22	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Barium	97		0.64	0.073	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Beryllium	1.2		0.26	0.060	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Boron	13		3.2	0.30	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Cadmium	<0.13		0.13	0.023	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Calcium	15000		13	2.2	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Chromium	26		0.64	0.32	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Cobalt	16		0.32	0.084	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Copper	30		0.64	0.18	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Iron	27000	B	13	6.7	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Lead	36		0.32	0.15	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Magnesium	12000		6.4	3.2	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Manganese	400		0.64	0.093	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Nickel	44		0.64	0.19	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Potassium	3100		32	11	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Selenium	0.73		0.64	0.38	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Silver	0.29	J	0.32	0.083	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Sodium	590		64	9.5	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Vanadium	33		0.32	0.076	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1
Zinc	81		1.3	0.57	mg/Kg	☼	01/28/20 17:36	01/30/20 05:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 10:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 10:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 10:06	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 10:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Client Sample ID: 2955V-22-B04 Dup

Lab Sample ID: 500-176650-5

Date Collected: 01/21/20 10:50

Matrix: Solid

Date Received: 01/21/20 16:23

Percent Solids: 77.2

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		02/05/20 15:35	02/06/20 10:06	1
Manganese	0.21		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 10:06	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 10:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.051		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:52	1
Barium	0.61		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:52	1
Beryllium	0.0068		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:52	1
Boron	0.16		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:52	1
Calcium	27		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:52	1
Chromium	0.17		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:52	1
Cobalt	0.033		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:52	1
Iron	150		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:52	1
Lead	0.098		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:52	1
Manganese	0.58		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:52	1
Nickel	0.16		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:52	1
Potassium	26		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:52	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:52	1
Zinc	0.37	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:52	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		02/05/20 15:35	02/06/20 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/20 16:01	02/03/20 14:50	1
Thallium	0.0036		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0067	mg/Kg	☼	02/05/20 14:00	02/06/20 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.30	mg/Kg	☼	01/30/20 13:10	01/30/20 15:16	1
pH	8.1		0.2	0.2	SU			01/28/20 16:52	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176650-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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>AET-33A</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>PTB/NO: 184-006/33A</u>	Lab Job No.: <u>500-176650</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 <u>Josh Hey</u>	Sample Temp: <u>41</u>
Special Instructions:		Analyses	

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.

*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
1	2955V-22-B01	1/21	1115	S	X	X					X	X	X	X	X				
2	2955V-22-B02		1105		↓	↓					↓	↓	↓	↓	↓				
3	2955V-22-B03		1100		↓	↓					↓	↓	↓	↓	↓				
4	2955V-22-B04		1045		↓	↓					↓	↓	↓	↓	↓				
5	2955V-22-B04 DUP		1050	↓	↓	↓					↓	↓	↓	↓	↓				
6	Trip Blank #3	1/21																	

Matrix Key:



500-176650 COC #

UL: U
O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	2955V-22-B01	1/21	1115	S	X	X					X	X	X	X	X					
2	2955V-22-B02		1105		↓	↓					↓	↓	↓	↓	↓					
3	2955V-22-B03		1100		↓	↓					↓	↓	↓	↓	↓					
4	2955V-22-B04		1045		↓	↓					↓	↓	↓	↓	↓					
5	2955V-22-B04 DUP		1050	↓	↓	↓					↓	↓	↓	↓	↓					
6	Trip Blank #3	1/21																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/21 1545</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/21/20 1545</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1601 West 55th Street

City: La Grange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.78991 Longitude: - 87.88966
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 212

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-23-B01 WAS SAMPLED ADJACENT TO SITE 2955V-23. SEE TABLE 3g AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176469-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-23
All Truck

Sample ID	2955V-23-B01-1	2955V-23-B01-2	Maximum Allowable Concentration				
Sample Depth (ft)	0-4	43929					
Sample Date	1/16/2020	1/16/2020					
PID	0	0					
Sample pH	8.6	8.1					
Matrix	Soil	Soil	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
No Contaminants of Concern Noted.							

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176469-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/30/2020 4:56:06 PM

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

LINKS

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results through
TotalAccess

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www.testamericainc.com

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Client Sample ID: 2955V-23-B01-1

Lab Sample ID: 500-176469-1

Date Collected: 01/16/20 15:10

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00071	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,2-Dichloropropane	<0.0016		0.0016	0.00043	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Acetone	<0.016		0.016	0.0072	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Bromodichloromethane	<0.0016		0.0016	0.00034	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Toluene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	01/17/20 16:30	01/28/20 12:01	1
4-Bromofluorobenzene (Surr)	109		75 - 131	01/17/20 16:30	01/28/20 12:01	1
Dibromofluoromethane	93		75 - 126	01/17/20 16:30	01/28/20 12:01	1
Toluene-d8 (Surr)	101		75 - 124	01/17/20 16:30	01/28/20 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Client Sample ID: 2955V-23-B01-1

Lab Sample ID: 500-176469-1

Date Collected: 01/16/20 15:10

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.056	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Benzo[a]anthracene	0.013	J	0.040	0.0054	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Benzo[a]pyrene	0.014	J	0.040	0.0078	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Benzo[b]fluoranthene	0.023	J	0.040	0.0087	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Carbazole	<0.20	*	0.20	0.10	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Chrysene	0.012	J	0.040	0.011	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Fluoranthene	0.021	J	0.040	0.0075	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Client Sample ID: 2955V-23-B01-1

Lab Sample ID: 500-176469-1

Date Collected: 01/16/20 15:10

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Phenanthrene	0.0079	J	0.040	0.0056	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Pyrene	0.020	J	0.040	0.0080	mg/Kg	☼	01/23/20 11:21	01/24/20 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		31 - 143				01/23/20 11:21	01/24/20 17:43	1
2-Fluorobiphenyl	83		43 - 145				01/23/20 11:21	01/24/20 17:43	1
2-Fluorophenol	102		31 - 166				01/23/20 11:21	01/24/20 17:43	1
Nitrobenzene-d5	88		37 - 147				01/23/20 11:21	01/24/20 17:43	1
Phenol-d5	103		30 - 153				01/23/20 11:21	01/24/20 17:43	1
Terphenyl-d14	105		42 - 157				01/23/20 11:21	01/24/20 17:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J F1	1.2	0.23	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Arsenic	7.6	F1	0.60	0.20	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Barium	58		0.60	0.068	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Beryllium	0.87		0.24	0.056	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Boron	14		3.0	0.28	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Cadmium	0.20		0.12	0.022	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Calcium	74000	B	120	20	mg/Kg	☼	01/23/20 16:35	01/27/20 10:52	10
Chromium	20		0.60	0.30	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Cobalt	14		0.30	0.078	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Copper	23	B F1	0.60	0.17	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Iron	20000		12	6.2	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Lead	18	F1	0.30	0.14	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Magnesium	21000		6.0	3.0	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Manganese	410	F2	0.60	0.087	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Nickel	37		0.60	0.17	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Potassium	2700		30	11	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Selenium	0.58	J F1	0.60	0.35	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Silver	3.1		0.30	0.077	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Sodium	600		60	8.8	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Vanadium	25		0.30	0.071	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1
Zinc	55		1.2	0.52	mg/Kg	☼	01/23/20 16:35	01/24/20 17:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 11:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 11:43	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:43	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 11:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Client Sample ID: 2955V-23-B01-1

Lab Sample ID: 500-176469-1

Date Collected: 01/16/20 15:10

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.4

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		01/29/20 15:11	01/30/20 11:43	1
Manganese	0.092		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:43	1
Nickel	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.068		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 19:31	1
Barium	0.59		0.50	0.050	mg/L		01/25/20 16:08	01/28/20 19:31	1
Beryllium	0.0082		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 19:31	1
Boron	0.20		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 19:31	1
Calcium	71		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:31	1
Chromium	0.17		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:31	1
Cobalt	0.042		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:31	1
Iron	170		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 10:08	1
Lead	0.084		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 19:31	1
Manganese	0.60		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:31	1
Nickel	0.19		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:31	1
Potassium	31		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 19:31	1
Silver	0.014 J		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:31	1
Zinc	0.52		0.50	0.020	mg/L		01/25/20 16:08	01/28/20 19:31	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		01/29/20 15:11	01/30/20 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/25/20 16:08	01/27/20 19:45	1
Thallium	0.0033		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00030		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 11:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.0065	mg/Kg	☼	01/28/20 14:30	01/29/20 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.30	mg/Kg	☼	01/29/20 13:05	01/29/20 15:32	1
pH	8.6		0.2	0.2	SU			01/23/20 20:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Client Sample ID: 2955V-23-B01-2

Lab Sample ID: 500-176469-2

Date Collected: 01/16/20 15:15

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	01/17/20 16:30	01/28/20 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/17/20 16:30	01/28/20 12:26	1
4-Bromofluorobenzene (Surr)	109		75 - 131	01/17/20 16:30	01/28/20 12:26	1
Dibromofluoromethane	88		75 - 126	01/17/20 16:30	01/28/20 12:26	1
Toluene-d8 (Surr)	103		75 - 124	01/17/20 16:30	01/28/20 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Client Sample ID: 2955V-23-B01-2

Lab Sample ID: 500-176469-2

Date Collected: 01/16/20 15:15

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
3,3'-Dichlorobenzidine	<0.20 *		0.20	0.056	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Carbazole	<0.20 *		0.20	0.10	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Chrysene	0.014 J		0.040	0.011	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Client Sample ID: 2955V-23-B01-2

Lab Sample ID: 500-176469-2

Date Collected: 01/16/20 15:15

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Phenanthrene	0.023	J	0.040	0.0056	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/23/20 11:21	01/24/20 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		31 - 143				01/23/20 11:21	01/24/20 18:08	1
2-Fluorobiphenyl	81		43 - 145				01/23/20 11:21	01/24/20 18:08	1
2-Fluorophenol	104		31 - 166				01/23/20 11:21	01/24/20 18:08	1
Nitrobenzene-d5	85		37 - 147				01/23/20 11:21	01/24/20 18:08	1
Phenol-d5	104		30 - 153				01/23/20 11:21	01/24/20 18:08	1
Terphenyl-d14	113		42 - 157				01/23/20 11:21	01/24/20 18:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.2	0.23	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Arsenic	5.6		0.60	0.20	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Barium	39		0.60	0.068	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Beryllium	0.89		0.24	0.056	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Boron	15		3.0	0.28	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Cadmium	0.15		0.12	0.021	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Calcium	73000	B	120	20	mg/Kg	☼	01/23/20 16:35	01/27/20 11:11	10
Chromium	20		0.60	0.29	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Cobalt	7.8		0.30	0.078	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Copper	22	B	0.60	0.17	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Iron	20000		12	6.2	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Lead	13		0.30	0.14	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Magnesium	22000		6.0	3.0	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Manganese	220		0.60	0.086	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Nickel	30		0.60	0.17	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Potassium	3000		30	11	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Silver	3.1		0.30	0.077	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Sodium	420		60	8.8	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Vanadium	24		0.30	0.070	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1
Zinc	54		1.2	0.52	mg/Kg	☼	01/23/20 16:35	01/24/20 17:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/29/20 15:11	01/30/20 11:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/29/20 15:11	01/30/20 11:47	1
Chromium	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:47	1
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 11:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Client Sample ID: 2955V-23-B01-2

Lab Sample ID: 500-176469-2

Date Collected: 01/16/20 15:15

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.9

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		01/29/20 15:11	01/30/20 11:47	1
Manganese	0.49		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:47	1
Nickel	<0.025		0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.057		0.050	0.010	mg/L		01/25/20 16:08	01/28/20 19:35	1
Barium	0.43	J	0.50	0.050	mg/L		01/25/20 16:08	01/28/20 19:35	1
Beryllium	0.0073		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 19:35	1
Boron	0.20		0.10	0.050	mg/L		01/25/20 16:08	01/28/20 19:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 19:35	1
Calcium	85		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:35	1
Chromium	0.16		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:35	1
Cobalt	0.038		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:35	1
Iron	160		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 10:12	1
Lead	0.079		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 19:35	1
Manganese	0.64		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:35	1
Nickel	0.17		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:35	1
Potassium	32		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:35	1
Selenium	<0.050		0.050	0.020	mg/L		01/25/20 16:08	01/28/20 19:35	1
Silver	0.016	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:35	1
Zinc	0.34	J	0.50	0.020	mg/L		01/25/20 16:08	01/28/20 19:35	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		01/25/20 16:08	01/27/20 19:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 11:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.019	0.0062	mg/Kg	☼	01/28/20 14:30	01/29/20 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.29	mg/Kg	☼	01/29/20 13:05	01/29/20 15:32	1
pH	8.1		0.2	0.2	SU			01/23/20 20:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176469-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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	 <small>500-176469 COC</small>	Laboratory	Project Name: <u>AET-33A</u>	COC No.: <u>1</u> of <u>1</u>
		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>PTB/WO-184-006/33A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD Other <u>Chad Nelson / Josh Hey</u>	Lab Job No.: <u>500-176469</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.			ANALYSES	

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES													Comments												
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization														
1	2955V-23-1001-1	1/16	1510	S	X	X					X	X	X	X	X															
2	2955V-23-1001-2	1/16	1515	↓	↓	↓					↓	↓	↓	↓	↓															
3	Trip Blank #1	1/16																												

Relinquished by: <u>Matt Lee</u>	Date/Time: <u>1/16 1700</u>	Received by: <u>Daniel Buckley TH</u>	Date/Time: <u>1/16/20 1700</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1519 West 55th Street

City: La Grange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.78991 Longitude: -87.88916
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 133

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-24-B01 WAS SAMPLED ADJACENT TO SITE 2955V-24. SEE TABLE 3h AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176470-1.

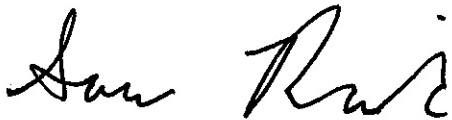
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-24
Quality Sleep Shop

Sample ID	2955V-24-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-8					
Sample Date	1/16/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176470-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/30/2020 4:38:27 PM

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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176470-1

Client Sample ID: 2955V-24-B01

Lab Sample ID: 500-176470-1

Date Collected: 01/16/20 15:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Acetone	0.030		0.017	0.0075	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/17/20 16:30	01/29/20 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	01/17/20 16:30	01/29/20 13:05	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/17/20 16:30	01/29/20 13:05	1
Dibromofluoromethane	98		75 - 126	01/17/20 16:30	01/29/20 13:05	1
Toluene-d8 (Surr)	102		75 - 124	01/17/20 16:30	01/29/20 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176470-1

Client Sample ID: 2955V-24-B01

Lab Sample ID: 500-176470-1

Date Collected: 01/16/20 15:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.056	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Carbazole	<0.20	*	0.20	0.10	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176470-1

Client Sample ID: 2955V-24-B01

Lab Sample ID: 500-176470-1

Date Collected: 01/16/20 15:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.047	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	01/23/20 11:21	01/24/20 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		31 - 143				01/23/20 11:21	01/24/20 18:33	1
2-Fluorobiphenyl	79		43 - 145				01/23/20 11:21	01/24/20 18:33	1
2-Fluorophenol	93		31 - 166				01/23/20 11:21	01/24/20 18:33	1
Nitrobenzene-d5	85		37 - 147				01/23/20 11:21	01/24/20 18:33	1
Phenol-d5	93		30 - 153				01/23/20 11:21	01/24/20 18:33	1
Terphenyl-d14	96		42 - 157				01/23/20 11:21	01/24/20 18:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.2	0.23	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Arsenic	10		0.60	0.20	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Barium	71		0.60	0.068	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Beryllium	1.0		0.24	0.056	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Boron	13		3.0	0.28	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Cadmium	0.16		0.12	0.022	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Calcium	26000	B	12	2.0	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Chromium	21		0.60	0.30	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Cobalt	15		0.30	0.078	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Copper	27		0.60	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Iron	24000		12	6.2	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Lead	18		0.30	0.14	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Magnesium	15000		6.0	3.0	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Manganese	430	B	0.60	0.087	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Nickel	40		0.60	0.17	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Potassium	2800		30	11	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Selenium	0.36	J	0.60	0.35	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Silver	3.8		0.30	0.077	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Sodium	260		60	8.9	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Thallium	0.60		0.60	0.30	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Vanadium	29		0.30	0.071	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1
Zinc	57		1.2	0.53	mg/Kg	☼	01/23/20 16:32	01/25/20 00:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		01/29/20 15:11	01/30/20 11:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/29/20 15:11	01/30/20 11:51	1
Manganese	0.019	J	0.025	0.010	mg/L		01/29/20 15:11	01/30/20 11:51	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176470-1

Client Sample ID: 2955V-24-B01

Lab Sample ID: 500-176470-1

Date Collected: 01/16/20 15:30

Matrix: Solid

Date Received: 01/16/20 17:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025	J	0.050	0.010	mg/L		01/25/20 16:08	01/28/20 19:39	1
Barium	0.17	J	0.50	0.050	mg/L		01/25/20 16:08	01/28/20 19:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:08	01/28/20 19:39	1
Boron	0.11	F1	0.10	0.050	mg/L		01/25/20 16:08	01/28/20 19:39	1
Cadmium	<0.0050	F1	0.0050	0.0020	mg/L		01/25/20 16:08	01/28/20 19:39	1
Calcium	14		2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:39	1
Chromium	0.046		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:39	1
Cobalt	0.012	J	0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:39	1
Iron	54		0.40	0.20	mg/L		01/29/20 15:13	01/30/20 10:16	1
Lead	0.028		0.0075	0.0075	mg/L		01/25/20 16:08	01/28/20 19:39	1
Manganese	0.16		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:39	1
Nickel	0.052		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:39	1
Potassium	9.0	F1	2.5	0.50	mg/L		01/25/20 16:08	01/28/20 19:39	1
Selenium	<0.050	F1	0.050	0.020	mg/L		01/25/20 16:08	01/28/20 19:39	1
Silver	<0.025		0.025	0.010	mg/L		01/25/20 16:08	01/28/20 19:39	1
Zinc	0.15	J	0.50	0.020	mg/L		01/25/20 16:08	01/28/20 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		01/25/20 16:08	01/27/20 19:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:08	01/27/20 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/29/20 10:25	01/30/20 11:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0063	mg/Kg	☼	01/28/20 14:30	01/29/20 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.27	mg/Kg	☼	01/22/20 13:00	01/22/20 15:15	1
pH	8.0		0.2	0.2	SU			01/23/20 18:27	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176470-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.


Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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>AE7-33A</u> Project No.: <u>PTB/WO: 184-006/33A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD Other _____ <u>Chad Nelson / Josh Hey</u> Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176470</u> Sample Temp: <u>41.3, 9.1, 6.4, 6</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.

*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				
1	2955V-24-1301	1/16	1530	S	X	X					X	X	X	X	X					

Matrix Key:

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

Relinquished by: <u>Ant Law</u>	Date/Time: <u>1/16 1700</u>	Received by: <u>Valerie Buckley TA</u>	Date/Time: <u>1/16/20 1700</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1511 West 55th Street

City: La Grange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.78992 Longitude: -87.88879
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 133

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-25-B01 WAS SAMPLED ADJACENT TO SITE 2955V-25. SEE TABLE 3i AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176583-1.

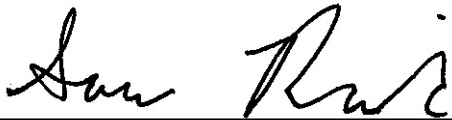
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

**ISGS Site 2955V-25
Highland Queen Drive In**

Sample ID	2955V-25-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-7					
Sample Date	1/20/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	7.6					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176583-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/6/2020 4:09:13 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

LINKS

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results through
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www.testamericainc.com

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176583-1

Client Sample ID: 2955V-25-B01

Lab Sample ID: 500-176583-1

Date Collected: 01/20/20 09:05

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
2-Butanone (MEK)	0.0040		0.0040	0.0018	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Acetone	0.031		0.016	0.0070	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	01/20/20 17:45	01/30/20 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	01/20/20 17:45	01/30/20 14:45	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/20/20 17:45	01/30/20 14:45	1
Dibromofluoromethane	106		75 - 126	01/20/20 17:45	01/30/20 14:45	1
Toluene-d8 (Surr)	91		75 - 124	01/20/20 17:45	01/30/20 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2,2'-oxybis[1-chloropropane]	<0.20	F1 F2	0.20	0.045	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176583-1

Client Sample ID: 2955V-25-B01

Lab Sample ID: 500-176583-1

Date Collected: 01/20/20 09:05

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2,4-Dinitrophenol	<0.78	F1	0.78	0.69	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
3,3'-Dichlorobenzidine	<0.20	F2	0.20	0.054	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
4,6-Dinitro-2-methylphenol	<0.78	F2	0.78	0.31	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
4-Nitrophenol	<0.78	* F1 F2	0.78	0.37	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Benzo[a]anthracene	0.038	J	0.039	0.0052	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Benzo[a]pyrene	0.054		0.039	0.0075	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Benzo[b]fluoranthene	0.10		0.039	0.0084	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Benzo[g,h,i]perylene	0.027	J F1	0.039	0.013	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Benzo[k]fluoranthene	0.045	F2	0.039	0.011	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Carbazole	<0.20	F1 F2	0.20	0.097	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Chrysene	0.055		0.039	0.011	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Dibenz(a,h)anthracene	<0.039	F1	0.039	0.0075	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Fluoranthene	0.089		0.039	0.0072	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Hexachlorocyclopentadiene	<0.78	F1	0.78	0.22	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176583-1

Client Sample ID: 2955V-25-B01

Lab Sample ID: 500-176583-1

Date Collected: 01/20/20 09:05

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.025	J F1	0.039	0.010	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Nitrobenzene	<0.039	*	0.039	0.0097	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Pentachlorophenol	<0.78	F1	0.78	0.62	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Phenanthrene	0.031	J	0.039	0.0054	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Pyrene	0.098	F2	0.039	0.0077	mg/Kg	☼	01/29/20 16:12	01/30/20 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		31 - 143				01/29/20 16:12	01/30/20 17:23	1
2-Fluorobiphenyl	82		43 - 145				01/29/20 16:12	01/30/20 17:23	1
2-Fluorophenol	89		31 - 166				01/29/20 16:12	01/30/20 17:23	1
Nitrobenzene-d5	74		37 - 147				01/29/20 16:12	01/30/20 17:23	1
Phenol-d5	89		30 - 153				01/29/20 16:12	01/30/20 17:23	1
Terphenyl-d14	113		42 - 157				01/29/20 16:12	01/30/20 17:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.22	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Arsenic	7.0		0.57	0.19	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Barium	44		0.57	0.065	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Beryllium	0.90		0.23	0.053	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Boron	15	B	2.8	0.26	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Cadmium	0.19	B	0.11	0.020	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Calcium	66000		110	19	mg/Kg	☼	01/25/20 16:41	01/29/20 12:02	10
Chromium	19		0.57	0.28	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Cobalt	16		0.28	0.074	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Copper	21		0.57	0.16	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Iron	19000		11	5.9	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Lead	14		0.28	0.13	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Magnesium	25000		5.7	2.8	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Manganese	360		0.57	0.082	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Nickel	37		0.57	0.16	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Potassium	2900		28	10	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Silver	3.1		0.28	0.073	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Sodium	330		57	8.4	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Vanadium	24		0.28	0.067	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1
Zinc	58		1.1	0.50	mg/Kg	☼	01/25/20 16:41	01/29/20 01:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:06	02/03/20 10:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:06	02/03/20 10:55	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:55	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 10:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176583-1

Client Sample ID: 2955V-25-B01

Lab Sample ID: 500-176583-1

Date Collected: 01/20/20 09:05

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 83.8

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		02/02/20 16:06	02/03/20 10:55	1
Manganese	1.5		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:55	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		02/02/20 15:59	02/03/20 12:17	1
Barium	0.45	J	0.50	0.050	mg/L		02/02/20 15:59	02/03/20 12:17	1
Beryllium	0.0062		0.0040	0.0040	mg/L		02/02/20 15:59	02/03/20 12:17	1
Boron	0.18		0.10	0.050	mg/L		02/02/20 15:59	02/03/20 12:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 15:59	02/03/20 12:17	1
Calcium	72		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:17	1
Chromium	0.15		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:17	1
Cobalt	0.043		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:17	1
Iron	140		0.40	0.20	mg/L		02/02/20 15:59	02/03/20 12:17	1
Lead	0.060		0.0075	0.0075	mg/L		02/02/20 15:59	02/03/20 12:17	1
Manganese	0.98		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:17	1
Nickel	0.17		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:17	1
Potassium	31		2.5	0.50	mg/L		02/02/20 15:59	02/03/20 12:17	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 15:59	02/03/20 12:17	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 15:59	02/03/20 12:17	1
Zinc	0.39	J	0.50	0.020	mg/L		02/02/20 15:59	02/03/20 12:17	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		02/02/20 16:06	02/04/20 18:31	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		02/02/20 15:59	02/03/20 13:40	1
Thallium	0.0032		0.0020	0.0020	mg/L		02/02/20 15:59	02/03/20 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.00020	mg/L		02/05/20 10:20	02/06/20 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048	B	0.020	0.0065	mg/Kg	☼	01/31/20 14:45	02/04/20 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.40		0.40	0.20	mg/Kg	☼	01/30/20 13:10	01/30/20 15:17	1
pH	7.6		0.2	0.2	SU			02/03/20 15:28	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176583-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance 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
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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	 500-176583 COC	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street <div style="text-align: center;">University Park, IL 60484</div> Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>AE7-33A</u> Project No.: <u>PTB/NO: 184-006/33A</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>Josh Hey</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176583</u> Sample Temp.: <u>3.5</u> <u>48at</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.
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES

VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization																						
1	<u>8955V-25-1301</u>	<u>1/20</u>	<u>0905</u>	<u>9</u>	X	X					X	X	X	X	X																		

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															
1	<u>8955V-25-1301</u>	<u>1/20</u>	<u>0905</u>	<u>9</u>															

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/20 1435</u>	Received by: <u>Stephanie Humander</u> TA	Date/Time: <u>1/20/20 1435</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

5501 Willow Springs Road

City: La Grange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.78991 Longitude: - 87.88837
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 0311535114, 0311535027

IEPA Site Number(s), if assigned: BOL: 0311535059 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 104

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-26-B01 WAS SAMPLED ADJACENT TO SITE 2955V-26. SEE TABLE 3j AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176587-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-26
Oil Quickly

Sample ID	2955V-26-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-6					
Sample Date	1/20/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	7.1					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176587-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/6/2020 4:28:40 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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176587-1

Client Sample ID: 2955V-26-B01

Lab Sample ID: 500-176587-1

Date Collected: 01/20/20 09:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0027		0.0027	0.00092	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,1,2,2-Tetrachloroethane	<0.0027		0.0027	0.00088	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,1,2-Trichloroethane	<0.0027		0.0027	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,1-Dichloroethane	<0.0027		0.0027	0.00094	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,1-Dichloroethene	<0.0027		0.0027	0.00094	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,2-Dichloroethane	<0.0068		0.0068	0.0021	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,2-Dichloropropane	<0.0027		0.0027	0.00071	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
1,3-Dichloropropene, Total	<0.0027		0.0027	0.00096	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
2-Butanone (MEK)	<0.0068		0.0068	0.0030	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
2-Hexanone	<0.0068		0.0068	0.0021	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0068		0.0068	0.0020	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Acetone	0.068		0.027	0.012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Benzene	<0.0027		0.0027	0.00070	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Bromodichloromethane	<0.0027		0.0027	0.00056	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Bromoform	<0.0027		0.0027	0.00080	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Bromomethane	<0.0068		0.0068	0.0026	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Carbon disulfide	<0.0068		0.0068	0.0014	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Carbon tetrachloride	<0.0027		0.0027	0.00079	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Chlorobenzene	<0.0027		0.0027	0.0010	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Chloroethane	<0.0068		0.0068	0.0020	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Chloroform	<0.0027		0.0027	0.00095	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Chloromethane	<0.0068		0.0068	0.0028	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
cis-1,2-Dichloroethene	<0.0027		0.0027	0.00077	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
cis-1,3-Dichloropropene	<0.0027		0.0027	0.00083	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Dibromochloromethane	<0.0027		0.0027	0.00090	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Ethylbenzene	<0.0027		0.0027	0.0013	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Methyl tert-butyl ether	<0.0027		0.0027	0.00080	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Methylene Chloride	<0.0068		0.0068	0.0027	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Styrene	<0.0027		0.0027	0.00083	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Tetrachloroethene	<0.0027		0.0027	0.00093	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Toluene	<0.0027		0.0027	0.00069	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
trans-1,2-Dichloroethene	<0.0027		0.0027	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
trans-1,3-Dichloropropene	<0.0027		0.0027	0.00096	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Trichloroethene	<0.0027		0.0027	0.00093	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Vinyl chloride	<0.0027		0.0027	0.0012	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1
Xylenes, Total	0.0016	J	0.0055	0.00088	mg/Kg	☼	01/20/20 17:45	01/30/20 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	01/20/20 17:45	01/30/20 16:53	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/20/20 17:45	01/30/20 16:53	1
Dibromofluoromethane	97		75 - 126	01/20/20 17:45	01/30/20 16:53	1
Toluene-d8 (Surr)	91		75 - 124	01/20/20 17:45	01/30/20 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
1,4-Dichlorobenzene	<0.22		0.22	0.056	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176587-1

Client Sample ID: 2955V-26-B01

Lab Sample ID: 500-176587-1

Date Collected: 01/20/20 09:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2,4-Dichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2,4-Dinitrophenol	<0.88		0.88	0.77	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2,4-Dinitrotoluene	<0.22		0.22	0.070	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2,6-Dinitrotoluene	<0.22		0.22	0.086	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2-Chlorophenol	<0.22		0.22	0.075	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2-Methylnaphthalene	<0.088		0.088	0.0081	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2-Methylphenol	<0.22		0.22	0.070	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2-Nitroaniline	<0.22		0.22	0.059	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
2-Nitrophenol	<0.44		0.44	0.10	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
3 & 4 Methylphenol	<0.22		0.22	0.073	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.061	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
4,6-Dinitro-2-methylphenol	<0.88		0.88	0.35	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
4-Chloroaniline	<0.88		0.88	0.21	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.051	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
4-Nitroaniline	<0.44		0.44	0.18	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
4-Nitrophenol	<0.88 *		0.88	0.42	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Acenaphthene	<0.044		0.044	0.0079	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Acenaphthylene	<0.044		0.044	0.0058	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Anthracene	<0.044		0.044	0.0073	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Benzo[a]anthracene	0.019 J		0.044	0.0059	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Benzo[a]pyrene	<0.044		0.044	0.0085	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Benzo[b]fluoranthene	0.038 J		0.044	0.0095	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Benzo[g,h,i]perylene	0.024 J		0.044	0.014	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Benzo[k]fluoranthene	<0.044		0.044	0.013	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Bis(2-ethylhexyl) phthalate	0.68		0.22	0.080	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Butyl benzyl phthalate	<0.22		0.22	0.083	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Chrysene	0.033 J		0.044	0.012	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Dibenz(a,h)anthracene	<0.044		0.044	0.0085	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Diethyl phthalate	<0.22		0.22	0.074	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Dimethyl phthalate	<0.22		0.22	0.057	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Di-n-butyl phthalate	<0.22		0.22	0.067	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Di-n-octyl phthalate	<0.22		0.22	0.071	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Fluoranthene	0.069		0.044	0.0081	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Fluorene	0.017 J		0.044	0.0062	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Hexachlorobenzene	<0.088		0.088	0.010	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Hexachlorobutadiene	<0.22		0.22	0.069	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Hexachlorocyclopentadiene	<0.88		0.88	0.25	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Hexachloroethane	<0.22		0.22	0.067	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176587-1

Client Sample ID: 2955V-26-B01

Lab Sample ID: 500-176587-1

Date Collected: 01/20/20 09:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.017	J	0.044	0.011	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Naphthalene	0.018	J	0.044	0.0067	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
N-Nitrosodi-n-propylamine	<0.088		0.088	0.054	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
N-Nitrosodiphenylamine	<0.22		0.22	0.052	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Pentachlorophenol	<0.88		0.88	0.70	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Phenanthrene	0.021	J	0.044	0.0061	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Phenol	<0.22		0.22	0.097	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Pyrene	0.035	J	0.044	0.0087	mg/Kg	☼	01/29/20 18:13	01/30/20 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	114		31 - 143				01/29/20 18:13	01/30/20 14:57	1
2-Fluorobiphenyl	85		43 - 145				01/29/20 18:13	01/30/20 14:57	1
2-Fluorophenol	90		31 - 166				01/29/20 18:13	01/30/20 14:57	1
Nitrobenzene-d5	82		37 - 147				01/29/20 18:13	01/30/20 14:57	1
Phenol-d5	74		30 - 153				01/29/20 18:13	01/30/20 14:57	1
Terphenyl-d14	137		42 - 157				01/29/20 18:13	01/30/20 14:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.3	0.25	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Arsenic	6.4		0.63	0.22	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Barium	95		0.63	0.072	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Beryllium	0.82		0.25	0.059	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Boron	13		3.2	0.29	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Cadmium	0.42	B	0.13	0.023	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Calcium	85000	B	130	21	mg/Kg	☼	01/27/20 07:36	01/30/20 15:37	10
Chromium	16		0.63	0.31	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Cobalt	11		0.32	0.083	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Copper	17		0.63	0.18	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Iron	20000		130	66	mg/Kg	☼	01/27/20 07:36	01/30/20 15:37	10
Lead	51		0.32	0.15	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Magnesium	52000		63	31	mg/Kg	☼	01/27/20 07:36	01/30/20 15:37	10
Manganese	460		0.63	0.092	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Nickel	20		0.63	0.18	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Potassium	2600		32	11	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Selenium	0.52	J	0.63	0.37	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Silver	2.6		0.32	0.082	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Sodium	500		63	9.4	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Thallium	<0.63		0.63	0.32	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Vanadium	27		0.32	0.075	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1
Zinc	83		1.3	0.56	mg/Kg	☼	01/27/20 07:36	01/30/20 02:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:06	02/03/20 11:50	1
Lead	0.020		0.0075	0.0075	mg/L		02/02/20 16:06	02/03/20 11:50	1
Manganese	10		0.025	0.010	mg/L		02/02/20 16:06	02/03/20 11:50	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176587-1

Client Sample ID: 2955V-26-B01

Lab Sample ID: 500-176587-1

Date Collected: 01/20/20 09:15

Matrix: Solid

Date Received: 01/20/20 14:35

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.016	J	0.050	0.010	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Barium	0.33	J	0.50	0.050	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Boron	0.15		0.10	0.050	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Calcium	13		2.5	0.50	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Chromium	0.067		0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Cobalt	0.017	J	0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Iron	51		0.40	0.20	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Lead	0.091		0.0075	0.0075	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Manganese	0.26		0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Nickel	0.048		0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Potassium	14	F1	2.5	0.50	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Silver	<0.025		0.025	0.010	mg/L	-	02/02/20 15:59	02/03/20 12:43	1
Zinc	0.21	J	0.50	0.020	mg/L	-	02/02/20 15:59	02/03/20 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L	-	02/02/20 15:59	02/03/20 13:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/02/20 15:59	02/03/20 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/05/20 10:20	02/06/20 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059	B F1 F2	0.021	0.0071	mg/Kg	☼	01/31/20 14:45	02/04/20 08:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.31	mg/Kg	☼	01/30/20 13:10	01/30/20 15:18	1
pH	7.1		0.2	0.2	SU			02/03/20 15:34	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176587-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance 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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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>AET-33A</u> Project No.: <u>PT12/wd:184-006/33A</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 <u>Josh Hey</u> Sampler:		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176587</u> Sample Temp: <u>35</u> <u>48qt.</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.
*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2955V-26-1301	1/20	0915	S	X	X					X	X	X	X	X		

Relinquished by: <u>Mut or</u>	Date/Time: <u>1/20 1435</u>	Received by: <u>Stephanie Humandley TA</u>	Date/Time: <u>1/20/20 1435</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1422 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79021 Longitude: -87.88783
(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: 0311533008 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 80

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-27-B01 AND 2955V-27-B02 WERE SAMPLED ADJACENT TO SITE 2955V-27. SEE TABLE 3k AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176654-1.

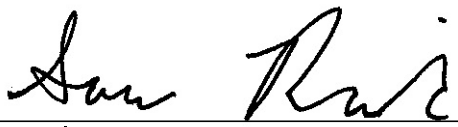
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-27
Shell Gas Station

Sample ID	2955V-27-B01	2955V-27-B02	Maximum Allowable Concentration				
Sample Depth (ft)	0-4	0-4					
Sample Date	1/21/2020	1/21/2020					
PID	0	0	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample pH	8.4	8.4					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176654-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/7/2020 12:41:53 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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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Client Sample ID: 2955V-27-B01

Lab Sample ID: 500-176654-1

Date Collected: 01/21/20 14:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Carbon tetrachloride	<0.0018 *		0.0018	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	01/21/20 17:25	01/31/20 19:07	1
4-Bromofluorobenzene (Surr)	97		75 - 131	01/21/20 17:25	01/31/20 19:07	1
Dibromofluoromethane	110		75 - 126	01/21/20 17:25	01/31/20 19:07	1
Toluene-d8 (Surr)	88		75 - 124	01/21/20 17:25	01/31/20 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Client Sample ID: 2955V-27-B01

Lab Sample ID: 500-176654-1

Date Collected: 01/21/20 14:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Client Sample ID: 2955V-27-B01

Lab Sample ID: 500-176654-1

Date Collected: 01/21/20 14:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	01/30/20 13:29	01/31/20 11:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		31 - 143				01/30/20 13:29	01/31/20 11:03	1
2-Fluorobiphenyl	86		43 - 145				01/30/20 13:29	01/31/20 11:03	1
2-Fluorophenol	95		31 - 166				01/30/20 13:29	01/31/20 11:03	1
Nitrobenzene-d5	75		37 - 147				01/30/20 13:29	01/31/20 11:03	1
Phenol-d5	93		30 - 153				01/30/20 13:29	01/31/20 11:03	1
Terphenyl-d14	104		42 - 157				01/30/20 13:29	01/31/20 11:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.21	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Arsenic	7.4		0.55	0.19	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Barium	50		0.55	0.063	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Beryllium	0.95		0.22	0.052	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Boron	18		2.8	0.26	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Calcium	60000	B	110	19	mg/Kg	☼	01/29/20 06:49	01/30/20 22:17	10
Chromium	18		0.55	0.27	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Cobalt	12		0.28	0.072	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Copper	22		0.55	0.15	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Iron	20000	B	11	5.7	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Lead	7.6		0.28	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 16:00	1
Magnesium	23000	B	5.5	2.7	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Manganese	330	B	0.55	0.080	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Nickel	32		0.55	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Potassium	3600		28	9.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Silver	0.20	J	0.28	0.071	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Sodium	270		55	8.2	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Vanadium	25		0.28	0.065	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1
Zinc	55		1.1	0.48	mg/Kg	☼	01/29/20 06:49	01/30/20 07:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/02/20 16:08	02/03/20 16:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/20 16:08	02/03/20 16:38	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:38	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:08	02/03/20 16:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Client Sample ID: 2955V-27-B01

Lab Sample ID: 500-176654-1

Date Collected: 01/21/20 14:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.3

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		02/02/20 16:08	02/03/20 16:38	1
Manganese	0.48		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:38	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		02/02/20 16:03	02/03/20 17:43	1
Barium	0.42	J	0.50	0.050	mg/L		02/02/20 16:03	02/03/20 17:43	1
Beryllium	0.0057		0.0040	0.0040	mg/L		02/02/20 16:03	02/03/20 17:43	1
Boron	0.17		0.10	0.050	mg/L		02/02/20 16:03	02/03/20 17:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:03	02/03/20 17:43	1
Calcium	57		2.5	0.50	mg/L		02/02/20 16:03	02/03/20 17:43	1
Chromium	0.13		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:43	1
Cobalt	0.030		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:43	1
Iron	130		0.40	0.20	mg/L		02/02/20 16:03	02/03/20 17:43	1
Lead	0.057		0.0075	0.0075	mg/L		02/02/20 16:03	02/03/20 17:43	1
Manganese	0.49		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:43	1
Nickel	0.14		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:43	1
Potassium	28	B ^	2.5	0.50	mg/L		02/02/20 16:03	02/03/20 17:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:03	02/03/20 17:43	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:43	1
Zinc	0.29	J	0.50	0.020	mg/L		02/02/20 16:03	02/03/20 17:43	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		02/02/20 16:08	02/04/20 18:58	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		02/02/20 16:03	02/03/20 15:10	1
Thallium	0.0032		0.0020	0.0020	mg/L		02/02/20 16:03	02/03/20 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 07:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0060	mg/Kg	☼	02/05/20 14:00	02/06/20 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.46		0.46	0.23	mg/Kg	☼	01/31/20 10:00	01/31/20 14:08	1
pH	8.4		0.2	0.2	SU			01/28/20 20:08	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Client Sample ID: 2955V-27-B02

Lab Sample ID: 500-176654-2

Date Collected: 01/21/20 14:25

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Acetone	0.010	J	0.018	0.0077	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Carbon tetrachloride	<0.0018	*	0.0018	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	01/21/20 17:25	01/31/20 19:32	1
4-Bromofluorobenzene (Surr)	96		75 - 131	01/21/20 17:25	01/31/20 19:32	1
Dibromofluoromethane	112		75 - 126	01/21/20 17:25	01/31/20 19:32	1
Toluene-d8 (Surr)	89		75 - 124	01/21/20 17:25	01/31/20 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Client Sample ID: 2955V-27-B02

Lab Sample ID: 500-176654-2

Date Collected: 01/21/20 14:25

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Client Sample ID: 2955V-27-B02

Lab Sample ID: 500-176654-2

Date Collected: 01/21/20 14:25

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/30/20 13:29	01/31/20 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143				01/30/20 13:29	01/31/20 11:27	1
2-Fluorobiphenyl	80		43 - 145				01/30/20 13:29	01/31/20 11:27	1
2-Fluorophenol	90		31 - 166				01/30/20 13:29	01/31/20 11:27	1
Nitrobenzene-d5	70		37 - 147				01/30/20 13:29	01/31/20 11:27	1
Phenol-d5	90		30 - 153				01/30/20 13:29	01/31/20 11:27	1
Terphenyl-d14	105		42 - 157				01/30/20 13:29	01/31/20 11:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Arsenic	6.5		0.56	0.19	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Barium	52		0.56	0.064	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Beryllium	0.99		0.22	0.052	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Boron	19		2.8	0.26	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Calcium	62000	B	110	19	mg/Kg	☼	01/29/20 06:49	01/30/20 22:22	10
Chromium	20		0.56	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Cobalt	12		0.28	0.073	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Copper	21		0.56	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Iron	20000	B	11	5.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Lead	6.7		0.28	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 16:04	1
Magnesium	22000	B	5.6	2.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Manganese	300	B	0.56	0.081	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Nickel	33		0.56	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Potassium	3900		28	9.9	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Silver	0.20	J	0.28	0.072	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Sodium	290		56	8.3	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Vanadium	26		0.28	0.066	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	1
Zinc	54		1.1	0.49	mg/Kg	☼	01/29/20 06:49	01/30/20 07:53	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		02/02/20 16:08	02/03/20 16:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:42	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:08	02/03/20 16:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/20 16:08	02/03/20 16:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Client Sample ID: 2955V-27-B02

Lab Sample ID: 500-176654-2

Date Collected: 01/21/20 14:25

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.57		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:42	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.048	J	0.050	0.010	mg/L		02/02/20 16:03	02/03/20 17:47	1
Barium	0.42	J	0.50	0.050	mg/L		02/02/20 16:03	02/03/20 17:47	1
Beryllium	0.0059		0.0040	0.0040	mg/L		02/02/20 16:03	02/03/20 17:47	1
Boron	0.18		0.10	0.050	mg/L		02/02/20 16:03	02/03/20 17:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:03	02/03/20 17:47	1
Calcium	75		2.5	0.50	mg/L		02/02/20 16:03	02/03/20 17:47	1
Chromium	0.14		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:47	1
Cobalt	0.031		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:47	1
Iron	130		0.40	0.20	mg/L		02/02/20 16:03	02/03/20 17:47	1
Lead	0.051		0.0075	0.0075	mg/L		02/02/20 16:03	02/03/20 17:47	1
Manganese	0.59		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:47	1
Nickel	0.15		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:47	1
Potassium	29	B ^	2.5	0.50	mg/L		02/02/20 16:03	02/03/20 17:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:03	02/03/20 17:47	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:47	1
Zinc	0.48	J	0.50	0.020	mg/L		02/02/20 16:03	02/03/20 17:47	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		02/02/20 16:08	02/04/20 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		02/02/20 16:03	02/03/20 15:12	1
Thallium	0.0027		0.0020	0.0020	mg/L		02/02/20 16:03	02/03/20 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 07:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0065	mg/Kg	☼	02/05/20 14:00	02/06/20 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/31/20 10:00	01/31/20 14:08	1
pH	8.4		0.2	0.2	SU			01/28/20 20:12	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176654-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
♠	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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>AET-33A</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>PTB/WO-184-COG/33A</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 <u>Josh Hey</u>	Lab Job No.: <u>500-176654</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.		Analyses	Sample Temp: <u>h.i</u>

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Matrix Key	Comments
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization		
1	2955V-27-1301	1/21	1435	S	X	X					X	X	X	X	X			
2	2955V-27-1302	1/21	1425	↓	↓	↓					↓	↓	↓	↓	↓			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/21 1545</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/21/20 1445</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1402-1418 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79022 Longitude: -87.88717
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 220

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-28-B01 AND 2955V-28-B02 WERE SAMPLED ADJACENT TO SITE 2955V-28. SEE TABLE 3I AND FIGURES 5 AND 6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176656-1.

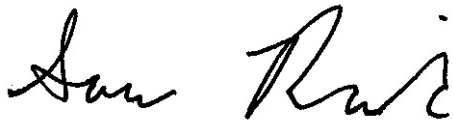
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

**ISGS Site 2955V-28
Commercial Building**

Sample ID	2955V-28-B01	2955V-28-B02	Maximum Allowable Concentration						
Sample Depth (ft)	0-6	0-6	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area		
Sample Date	1/21/2020	1/21/2020							
PID	0	0							
Sample pH	8	8.1							
Matrix	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)									
Benzo(a)pyrene	ND		0.83	1,2	0.09	0.09	0.98	1.3	2.1
Benzo(b)fluoranthene	ND		1.2	1,2,3	0.9	0.9	0.9	1.5	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176656-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/7/2020 1:19:09 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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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Client Sample ID: 2955V-28-B01

Lab Sample ID: 500-176656-1

Date Collected: 01/21/20 14:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00071	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
1,2-Dichloropropane	<0.0016		0.0016	0.00043	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Acetone	<0.016		0.016	0.0072	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Carbon tetrachloride	<0.0016 *		0.0016	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Toluene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	01/21/20 17:25	01/31/20 19:57	1
4-Bromofluorobenzene (Surr)	96		75 - 131	01/21/20 17:25	01/31/20 19:57	1
Dibromofluoromethane	106		75 - 126	01/21/20 17:25	01/31/20 19:57	1
Toluene-d8 (Surr)	88		75 - 124	01/21/20 17:25	01/31/20 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Client Sample ID: 2955V-28-B01

Lab Sample ID: 500-176656-1

Date Collected: 01/21/20 14:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Client Sample ID: 2955V-28-B01

Lab Sample ID: 500-176656-1

Date Collected: 01/21/20 14:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	01/30/20 13:29	01/31/20 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		31 - 143				01/30/20 13:29	01/31/20 11:52	1
2-Fluorobiphenyl	81		43 - 145				01/30/20 13:29	01/31/20 11:52	1
2-Fluorophenol	90		31 - 166				01/30/20 13:29	01/31/20 11:52	1
Nitrobenzene-d5	70		37 - 147				01/30/20 13:29	01/31/20 11:52	1
Phenol-d5	90		30 - 153				01/30/20 13:29	01/31/20 11:52	1
Terphenyl-d14	106		42 - 157				01/30/20 13:29	01/31/20 11:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Arsenic	7.8		0.57	0.20	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Barium	60		0.57	0.066	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Beryllium	0.95		0.23	0.054	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Boron	18		2.9	0.27	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Cadmium	<0.11		0.11	0.021	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Calcium	54000	B	110	19	mg/Kg	☼	01/29/20 06:49	01/30/20 22:26	10
Chromium	19		0.57	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Cobalt	16		0.29	0.075	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Copper	25		0.57	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Iron	21000	B	11	6.0	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Lead	7.8		0.29	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 16:09	1
Magnesium	23000	B	5.7	2.9	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Manganese	440	B	0.57	0.083	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Nickel	43		0.57	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Potassium	3800		29	10	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Silver	0.18	J	0.29	0.074	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Sodium	360		57	8.5	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Vanadium	25		0.29	0.068	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	1
Zinc	57		1.1	0.50	mg/Kg	☼	01/29/20 06:49	01/30/20 07:58	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		02/02/20 16:08	02/03/20 16:47	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:08	02/03/20 16:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/20 16:08	02/03/20 16:47	1
Manganese	0.77		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Client Sample ID: 2955V-28-B01

Lab Sample ID: 500-176656-1

Date Collected: 01/21/20 14:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.048	J	0.050	0.010	mg/L		02/02/20 16:03	02/03/20 17:51	1
Barium	0.28	J	0.50	0.050	mg/L		02/02/20 16:03	02/03/20 17:51	1
Beryllium	0.0046		0.0040	0.0040	mg/L		02/02/20 16:03	02/03/20 17:51	1
Boron	0.16		0.10	0.050	mg/L		02/02/20 16:03	02/03/20 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:03	02/03/20 17:51	1
Calcium	48		2.5	0.50	mg/L		02/02/20 16:03	02/03/20 17:51	1
Chromium	0.10		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:51	1
Cobalt	0.032		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:51	1
Iron	110		0.40	0.20	mg/L		02/02/20 16:03	02/03/20 17:51	1
Lead	0.046		0.0075	0.0075	mg/L		02/02/20 16:03	02/03/20 17:51	1
Manganese	0.45		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:51	1
Nickel	0.13		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:51	1
Potassium	23	B ^	2.5	0.50	mg/L		02/02/20 16:03	02/03/20 17:51	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:03	02/03/20 17:51	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:51	1
Zinc	0.50		0.50	0.020	mg/L		02/02/20 16:03	02/03/20 17:51	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		02/02/20 16:08	02/04/20 19:02	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		02/02/20 16:03	02/03/20 15:14	1
Thallium	0.0043		0.0020	0.0020	mg/L		02/02/20 16:03	02/03/20 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 07:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0065	mg/Kg	☼	02/05/20 14:00	02/06/20 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.24	mg/Kg	☼	01/31/20 10:00	01/31/20 14:09	1
pH	8.0		0.2	0.2	SU			01/28/20 20:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Client Sample ID: 2955V-28-B02

Lab Sample ID: 500-176656-2

Date Collected: 01/21/20 14:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Carbon tetrachloride	<0.0018 *		0.0018	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/21/20 17:25	01/31/20 20:23	1
4-Bromofluorobenzene (Surr)	96		75 - 131	01/21/20 17:25	01/31/20 20:23	1
Dibromofluoromethane	104		75 - 126	01/21/20 17:25	01/31/20 20:23	1
Toluene-d8 (Surr)	89		75 - 124	01/21/20 17:25	01/31/20 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Client Sample ID: 2955V-28-B02

Lab Sample ID: 500-176656-2

Date Collected: 01/21/20 14:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Acenaphthene	0.035	J	0.037	0.0067	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Anthracene	0.13		0.037	0.0062	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Benzo[a]anthracene	0.66		0.037	0.0050	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Benzo[a]pyrene	0.83		0.037	0.0072	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Benzo[b]fluoranthene	1.2		0.037	0.0080	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Benzo[g,h,i]perylene	0.30		0.037	0.012	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Benzo[k]fluoranthene	0.58		0.037	0.011	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Bis(2-ethylhexyl) phthalate	0.24		0.19	0.068	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Chrysene	0.73		0.037	0.010	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Dibenz(a,h)anthracene	0.081		0.037	0.0072	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Fluoranthene	1.3		0.037	0.0069	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Fluorene	0.039		0.037	0.0052	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Client Sample ID: 2955V-28-B02

Lab Sample ID: 500-176656-2

Date Collected: 01/21/20 14:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.29		0.037	0.0096	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Naphthalene	0.0092	J	0.037	0.0057	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Phenanthrene	0.60		0.037	0.0052	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Pyrene	1.7		0.037	0.0074	mg/Kg	☼	01/30/20 13:29	02/03/20 21:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		31 - 143				01/30/20 13:29	02/03/20 21:02	1
2-Fluorobiphenyl	74		43 - 145				01/30/20 13:29	02/03/20 21:02	1
2-Fluorophenol	87		31 - 166				01/30/20 13:29	02/03/20 21:02	1
Nitrobenzene-d5	64		37 - 147				01/30/20 13:29	02/03/20 21:02	1
Phenol-d5	87		30 - 153				01/30/20 13:29	02/03/20 21:02	1
Terphenyl-d14	152		42 - 157				01/30/20 13:29	02/03/20 21:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.1	0.21	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Arsenic	6.8		0.55	0.19	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Barium	47		0.55	0.062	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Beryllium	0.87		0.22	0.051	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Boron	15		2.7	0.26	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Calcium	62000	B	110	19	mg/Kg	☼	01/29/20 06:49	01/30/20 22:30	10
Chromium	17		0.55	0.27	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Cobalt	11		0.27	0.072	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Copper	21		0.55	0.15	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Iron	18000	B	11	5.7	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Lead	15		0.27	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 16:13	1
Magnesium	26000	B	5.5	2.7	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Manganese	290	B	0.55	0.079	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Nickel	30		0.55	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Potassium	3300		27	9.7	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Silver	0.17	J	0.27	0.071	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Sodium	180		55	8.1	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Vanadium	23		0.27	0.065	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	1
Zinc	57		1.1	0.48	mg/Kg	☼	01/29/20 06:49	01/30/20 08:11	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		02/02/20 16:08	02/03/20 16:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:59	1
Iron	<0.40		0.40	0.20	mg/L		02/02/20 16:08	02/03/20 16:59	1
Lead	0.028		0.0075	0.0075	mg/L		02/02/20 16:08	02/03/20 16:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Client Sample ID: 2955V-28-B02

Lab Sample ID: 500-176656-2

Date Collected: 01/21/20 14:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.053		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:59	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/20 16:08	02/03/20 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.043	J	0.050	0.010	mg/L		02/02/20 16:03	02/03/20 17:56	1
Barium	0.37	J	0.50	0.050	mg/L		02/02/20 16:03	02/03/20 17:56	1
Beryllium	0.0051		0.0040	0.0040	mg/L		02/02/20 16:03	02/03/20 17:56	1
Boron	0.16		0.10	0.050	mg/L		02/02/20 16:03	02/03/20 17:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:03	02/03/20 17:56	1
Calcium	49		2.5	0.50	mg/L		02/02/20 16:03	02/03/20 17:56	1
Chromium	0.12		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:56	1
Cobalt	0.025	F1	0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:56	1
Iron	110		0.40	0.20	mg/L		02/02/20 16:03	02/03/20 17:56	1
Lead	0.10		0.0075	0.0075	mg/L		02/02/20 16:03	02/03/20 17:56	1
Manganese	0.49		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:56	1
Nickel	0.11		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:56	1
Potassium	27	F1 B ^	2.5	0.50	mg/L		02/02/20 16:03	02/03/20 17:56	1
Selenium	<0.050	F1	0.050	0.020	mg/L		02/02/20 16:03	02/03/20 17:56	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:03	02/03/20 17:56	1
Zinc	0.33	J	0.50	0.020	mg/L		02/02/20 16:03	02/03/20 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		02/02/20 16:03	02/03/20 15:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/20 16:03	02/03/20 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00043		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 07:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0059	mg/Kg	☼	02/05/20 14:00	02/06/20 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.44		0.44	0.22	mg/Kg	☼	01/31/20 10:00	01/31/20 14:09	1
pH	8.1		0.2	0.2	SU			01/28/20 20:21	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176656-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
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.
□	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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>AE7-33A</u> Project No.: <u>PT10/NO: 184-006/33A</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>Josh Hey</u>					COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176656</u> Sample Temp: <u>5.1</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.					ANALYSES										Matrix <input checked="" type="checkbox"/>  500-176656 COC DW: Unknown 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	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2955V-28-1301	1/21	1415	S	X	X					X	X	X	X	X		
2	2955V-28-1302	1/21	1405	↓	↓	↓					↓	↓	↓	↓	↓		
Relinquished by: <u>Paul MW</u>					Date/Time: <u>1/21 1545</u>					Received by: <u>[Signature]</u>					Date/Time: <u>1/21/20 1545</u>		
Relinquished by:					Date/Time:					Received by:					Date/Time:		
Relinquished by:					Date/Time:					Received by:					Date/Time:		



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1417-1419 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.78995 Longitude: - 87.88744

(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: 0310575062 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 9

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-31-B01 WAS SAMPLED ADJACENT TO SITE 2955V-31. SEE TABLE 3n AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176796-1.

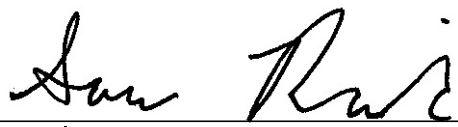
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-31
Commercial Building

Sample ID	2955V-31-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-4					
Sample Date	1/23/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.1					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176796-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/11/2020 3:55:34 PM

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

LINKS

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176796-1

Client Sample ID: 2955V-31-B01

Lab Sample ID: 500-176796-1

Date Collected: 01/23/20 12:25

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00062	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Acetone	<0.020		0.020	0.0085	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Toluene	<0.0020		0.0020	0.00049	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Vinyl chloride	<0.0020		0.0020	0.00086	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	01/24/20 17:25	02/05/20 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	01/24/20 17:25	02/05/20 11:11	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/24/20 17:25	02/05/20 11:11	1
Dibromofluoromethane	103		75 - 126	01/24/20 17:25	02/05/20 11:11	1
Toluene-d8 (Surr)	88		75 - 124	01/24/20 17:25	02/05/20 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176796-1

Client Sample ID: 2955V-31-B01

Lab Sample ID: 500-176796-1

Date Collected: 01/23/20 12:25

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Benzo[a]anthracene	0.0055	J	0.040	0.0055	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176796-1

Client Sample ID: 2955V-31-B01

Lab Sample ID: 500-176796-1

Date Collected: 01/23/20 12:25

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	02/05/20 07:37	02/05/20 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	113		31 - 143				02/05/20 07:37	02/05/20 22:37	1
2-Fluorobiphenyl	96		43 - 145				02/05/20 07:37	02/05/20 22:37	1
2-Fluorophenol	110		31 - 166				02/05/20 07:37	02/05/20 22:37	1
Nitrobenzene-d5	92		37 - 147				02/05/20 07:37	02/05/20 22:37	1
Phenol-d5	108		30 - 153				02/05/20 07:37	02/05/20 22:37	1
Terphenyl-d14	141		42 - 157				02/05/20 07:37	02/05/20 22:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1		1.1	0.22	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Arsenic	8.5		0.57	0.19	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Barium	70		0.57	0.065	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Beryllium	1.1		0.23	0.053	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Boron	14		2.8	0.26	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Cadmium	0.16		0.11	0.020	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Calcium	56000	B	110	19	mg/Kg	☼	02/03/20 07:15	02/04/20 13:36	10
Chromium	22		0.57	0.28	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Cobalt	12		0.28	0.074	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Copper	23		0.57	0.16	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Iron	23000		11	5.9	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Lead	14		0.28	0.13	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Magnesium	21000		5.7	2.8	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Manganese	370		0.57	0.082	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Nickel	36		0.57	0.17	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Potassium	3000		28	10	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Selenium	0.37	J	0.57	0.33	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Silver	3.2		0.28	0.073	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Sodium	360		57	8.4	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Vanadium	30		0.28	0.067	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1
Zinc	57		1.1	0.50	mg/Kg	☼	02/03/20 07:15	02/03/20 23:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 20:40	1
Lead	0.011		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 20:40	1
Manganese	6.7		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176796-1

Client Sample ID: 2955V-31-B01

Lab Sample ID: 500-176796-1

Date Collected: 01/23/20 12:25

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017	J	0.050	0.010	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Barium	0.23	J	0.50	0.050	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Boron	0.10		0.10	0.050	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Calcium	23		2.5	0.50	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Chromium	0.058		0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Cobalt	0.022	J	0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Iron	55		0.40	0.20	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Lead	0.035		0.0075	0.0075	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Manganese	0.48		0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Nickel	0.067		0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Potassium	11		2.5	0.50	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Silver	<0.025		0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 17:31	1
Zinc	0.12	J B	0.50	0.020	mg/L	-	02/08/20 16:41	02/10/20 17:31	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	-	02/08/20 16:41	02/11/20 12:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/08/20 16:41	02/10/20 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/10/20 10:45	02/11/20 11:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0061	mg/Kg	☼	02/10/20 15:05	02/11/20 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.30	mg/Kg	☼	02/06/20 10:00	02/06/20 14:34	1
pH	8.1		0.2	0.2	SU			01/30/20 14:59	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176796-1

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
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1333 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.78997 Longitude: - 87.88664
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 6

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-33-B01 WAS SAMPLED ADJACENT TO SITE 2955V-33. SEE TABLE 3o AND FIGURE 6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176797-1.

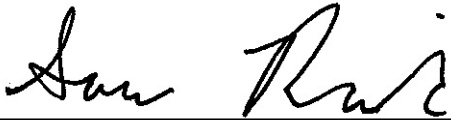
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-33

Parking Lot

Sample ID	2955V-33-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	1/23/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.7					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176797-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/11/2020 3:57:37 PM

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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176797-1

Client Sample ID: 2955V-33-B01

Lab Sample ID: 500-176797-1

Date Collected: 01/23/20 12:15

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Chloromethane	<0.0042 *		0.0042	0.0017	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/24/20 17:25	02/05/20 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/24/20 17:25	02/05/20 12:54	1
4-Bromofluorobenzene (Surr)	102		75 - 131	01/24/20 17:25	02/05/20 12:54	1
Dibromofluoromethane	93		75 - 126	01/24/20 17:25	02/05/20 12:54	1
Toluene-d8 (Surr)	97		75 - 124	01/24/20 17:25	02/05/20 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176797-1

Client Sample ID: 2955V-33-B01

Lab Sample ID: 500-176797-1

Date Collected: 01/23/20 12:15

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176797-1

Client Sample ID: 2955V-33-B01

Lab Sample ID: 500-176797-1

Date Collected: 01/23/20 12:15

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/05/20 07:37	02/05/20 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	114		31 - 143				02/05/20 07:37	02/05/20 17:44	1
2-Fluorobiphenyl	94		43 - 145				02/05/20 07:37	02/05/20 17:44	1
2-Fluorophenol	109		31 - 166				02/05/20 07:37	02/05/20 17:44	1
Nitrobenzene-d5	88		37 - 147				02/05/20 07:37	02/05/20 17:44	1
Phenol-d5	107		30 - 153				02/05/20 07:37	02/05/20 17:44	1
Terphenyl-d14	131		42 - 157				02/05/20 07:37	02/05/20 17:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.99	J	1.1	0.22	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Arsenic	7.9		0.57	0.20	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Barium	47		0.57	0.065	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Beryllium	0.94		0.23	0.053	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Boron	14		2.9	0.27	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Cadmium	0.14		0.11	0.021	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Calcium	59000		110	19	mg/Kg	☼	01/31/20 16:39	02/04/20 12:00	10
Chromium	20		0.57	0.28	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Cobalt	13		0.29	0.075	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Copper	23		0.57	0.16	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Iron	21000		11	6.0	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Lead	14		0.29	0.13	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Magnesium	25000		5.7	2.8	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Manganese	310		0.57	0.083	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Nickel	35		0.57	0.17	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Potassium	2600		29	10	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Silver	2.4		0.29	0.074	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Sodium	850		57	8.5	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Vanadium	25		0.29	0.068	mg/Kg	☼	01/31/20 16:39	02/03/20 20:56	1
Zinc	57		1.1	0.50	mg/Kg	☼	01/31/20 16:39	02/04/20 11:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/20 06:31	02/10/20 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/20 06:31	02/10/20 20:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:45	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 20:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176797-1

Client Sample ID: 2955V-33-B01

Lab Sample ID: 500-176797-1

Date Collected: 01/23/20 12:15

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.2

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		02/10/20 06:31	02/10/20 20:45	1
Manganese	3.1		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:45	1
Nickel	0.036		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.067		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 17:35	1
Barium	0.47	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 17:35	1
Beryllium	0.0066		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 17:35	1
Boron	0.17		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 17:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 17:35	1
Calcium	58		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:35	1
Chromium	0.13		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:35	1
Cobalt	0.039		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:35	1
Iron	140		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 17:35	1
Lead	0.092		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 17:35	1
Manganese	0.55		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:35	1
Nickel	0.18		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:35	1
Potassium	24	F1	2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:35	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 17:35	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:35	1
Zinc	0.39	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 17:35	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		02/10/20 06:31	02/11/20 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		02/08/20 16:41	02/11/20 12:09	1
Thallium	0.0053		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 22:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0062	mg/Kg	☼	02/10/20 15:05	02/11/20 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.23	mg/Kg	☼	02/06/20 10:00	02/06/20 14:33	1
pH	8.7		0.2	0.2	SU			01/30/20 15:05	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176797-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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 500-176797 COC 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>AE7-33A</u> Project No.: <u>PTB/VO:184-006/33A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD Other <u>Shawn Fritzsche</u> Sampler:	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176797</u> Sample Temp.: <u>4.8</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.
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

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

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	*** Cyanide	pH	% Solids	Waste Characterization				Comments
	2955V-33-1301	1/23	1215	S	X	X					X	X	X	X	X					

Relinquished by: <i>[Signature]</i>	Date/Time: 1/23 1350	Received by: <i>[Signature]</i>	Date/Time: 1/23/20 1350
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

5603-5617 Willow Springs Road, 1102-1425 W. 55th Place, 1211-1329 W. 55th Street and 5500-5545 Edgewood Avenue

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79002 Longitude: - 87.88461
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 351

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-35-B01, 2955V-35-B02, 2955V-35-B03, 2955V-35-B04 AND 2955V-35-B05 WERE SAMPLED ADJACENT TO SITE 2955V-35. SEE TABLE 3p AND FIGURE 6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176792-1.

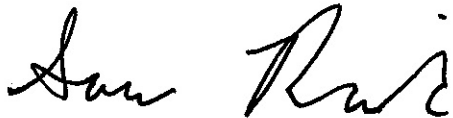
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-35
Residences and Vacant Lot

Sample ID	2955V-35-B01	2955V-35-B02	2955V-35-B03	2955V-35-B04	2955V-35-B05	Maximum Allowable Concentration								
						¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area				
Sample Depth (ft)	0-2	0-2	0-2	0-2	0-2									
Sample Date	1/23/2020	1/23/2020	1/23/2020	1/23/2020	1/23/2020									
PID	0	0	0	0	0									
Sample pH	7.5	8.1	7.9	7	8.3									
Matrix	Soil	Soil	Soil	Soil	Soil									
Semivolatile Organic Compounds (mg/kg)														
Benzo(a)anthracene	ND	1.3	1,2,3,4	ND	ND	J 0.017		0.9	0.9	0.9	1.1	1.8		
Benzo(a)pyrene	ND	1.5	1,2,3,4	ND	ND	J 0.031		0.09	0.09	0.98	1.3	2.1		
Benzo(b)fluoranthene	ND	2	1,2,3,4	J 0.013	ND	J 0.025		0.9	0.9	0.9	1.5	2.1		
Dibenzo(a,h)anthracene	ND	0.21	1,2,3,4	ND	ND	ND		0.09	0.09	0.15	0.2	0.42		

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176792-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/11/2020 3:40:03 PM

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

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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B01

Lab Sample ID: 500-176792-1

Date Collected: 01/23/20 12:05

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00074	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.0010	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
1,1-Dichloroethene	<0.0023		0.0023	0.00080	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
1,2-Dichloroethane	<0.0058		0.0058	0.0018	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
1,2-Dichloropropane	<0.0023		0.0023	0.00060	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00081	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
2-Butanone (MEK)	<0.0058		0.0058	0.0026	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Acetone	0.012	J	0.023	0.010	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Benzene	<0.0023		0.0023	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Bromoform	<0.0023		0.0023	0.00068	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Bromomethane	<0.0058		0.0058	0.0022	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Carbon disulfide	<0.0058		0.0058	0.0012	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Carbon tetrachloride	<0.0023		0.0023	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Chlorobenzene	<0.0023		0.0023	0.00086	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Chloroethane	<0.0058	*	0.0058	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Chloroform	<0.0023		0.0023	0.00081	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Chloromethane	<0.0058	*	0.0058	0.0023	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00070	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Dibromochloromethane	<0.0023		0.0023	0.00076	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00068	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Methylene Chloride	<0.0058		0.0058	0.0023	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Styrene	<0.0023		0.0023	0.00070	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Tetrachloroethene	<0.0023		0.0023	0.00079	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Toluene	<0.0023		0.0023	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1
Xylenes, Total	<0.0046		0.0046	0.00074	mg/Kg	☼	01/24/20 17:25	02/04/20 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	01/24/20 17:25	02/04/20 16:56	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/24/20 17:25	02/04/20 16:56	1
Dibromofluoromethane	95		75 - 126	01/24/20 17:25	02/04/20 16:56	1
Toluene-d8 (Surr)	94		75 - 124	01/24/20 17:25	02/04/20 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2,2'-oxybis[1-chloropropane]	<0.21	*	0.21	0.048	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B01

Lab Sample ID: 500-176792-1

Date Collected: 01/23/20 12:05

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.095	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2,4-Dichlorophenol	<0.42		0.42	0.099	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2-Methylnaphthalene	<0.084	*	0.084	0.0077	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Anthracene	<0.042	*	0.042	0.0070	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Benzo[b]fluoranthene	<0.042		0.042	0.0090	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Benzo[g,h,i]perylene	<0.042		0.042	0.013	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Diethyl phthalate	<0.21	*	0.21	0.071	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Fluoranthene	0.018	J	0.042	0.0078	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Fluorene	<0.042	*	0.042	0.0059	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B01

Lab Sample ID: 500-176792-1

Date Collected: 01/23/20 12:05

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Naphthalene	<0.042		0.042	0.0064	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
N-Nitrosodiphenylamine	<0.21 *		0.21	0.049	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	02/04/20 07:41	02/04/20 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		31 - 143				02/04/20 07:41	02/04/20 17:55	1
2-Fluorobiphenyl	91		43 - 145				02/04/20 07:41	02/04/20 17:55	1
2-Fluorophenol	132		31 - 166				02/04/20 07:41	02/04/20 17:55	1
Nitrobenzene-d5	101		37 - 147				02/04/20 07:41	02/04/20 17:55	1
Phenol-d5	107		30 - 153				02/04/20 07:41	02/04/20 17:55	1
Terphenyl-d14	99		42 - 157				02/04/20 07:41	02/04/20 17:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.24	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Arsenic	8.3		0.61	0.21	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Barium	120		0.61	0.069	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Beryllium	0.99		0.24	0.057	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Boron	9.8		3.0	0.28	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Cadmium	0.20	B	0.12	0.022	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Calcium	3300	B	12	2.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Chromium	21		0.61	0.30	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Cobalt	13		0.30	0.080	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Copper	19		0.61	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Iron	20000		12	6.3	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Lead	24		0.30	0.14	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Magnesium	3000		6.1	3.0	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Manganese	530		0.61	0.088	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Nickel	24		0.61	0.18	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Potassium	2400		30	11	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Silver	4.4		0.30	0.079	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Sodium	600		61	9.0	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Vanadium	37		0.30	0.072	mg/Kg	☼	01/31/20 06:48	02/01/20 02:06	1
Zinc	66		1.2	0.54	mg/Kg	☼	01/31/20 06:48	02/03/20 19:38	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		02/10/20 06:31	02/10/20 18:53	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 18:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 18:53	1
Manganese	0.011	J	0.025	0.010	mg/L		02/10/20 06:31	02/10/20 18:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B01

Lab Sample ID: 500-176792-1

Date Collected: 01/23/20 12:05

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:28	1
Barium	0.46	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:28	1
Beryllium	0.0041		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:28	1
Boron	0.097	J	0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:28	1
Calcium	14		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:28	1
Chromium	0.092		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:28	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:28	1
Iron	85		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:28	1
Lead	0.060		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:28	1
Manganese	0.36		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:28	1
Nickel	0.082		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:28	1
Potassium	11		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:28	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:28	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:28	1
Zinc	0.24	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:28	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		02/10/20 06:31	02/11/20 12:44	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		02/08/20 16:41	02/11/20 11:30	1
Thallium	0.0024		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.021	0.0070	mg/Kg	☼	02/10/20 15:05	02/11/20 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.26	mg/Kg	☼	02/06/20 10:00	02/06/20 14:35	1
pH	7.5		0.2	0.2	SU			01/30/20 14:29	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B02

Lab Sample ID: 500-176792-2

Date Collected: 01/23/20 11:55

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Chloroethane	<0.0048 *		0.0048	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Chloromethane	<0.0048 *		0.0048	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/24/20 17:25	02/04/20 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	01/24/20 17:25	02/04/20 17:21	1
4-Bromofluorobenzene (Surr)	105		75 - 131	01/24/20 17:25	02/04/20 17:21	1
Dibromofluoromethane	97		75 - 126	01/24/20 17:25	02/04/20 17:21	1
Toluene-d8 (Surr)	96		75 - 124	01/24/20 17:25	02/04/20 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2,2'-oxybis[1-chloropropane]	<0.21 *		0.21	0.048	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B02

Lab Sample ID: 500-176792-2

Date Collected: 01/23/20 11:55

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2-Methylnaphthalene	<0.083	*	0.083	0.0075	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Acenaphthene	0.059		0.041	0.0074	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Anthracene	0.14	*	0.041	0.0068	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Benzo[a]anthracene	1.3		0.041	0.0055	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Benzo[a]pyrene	1.5		0.041	0.0079	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Benzo[b]fluoranthene	2.0		0.041	0.0088	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Benzo[g,h,i]perylene	0.66		0.041	0.013	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Benzo[k]fluoranthene	0.79		0.041	0.012	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Chrysene	1.2		0.041	0.011	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Dibenz(a,h)anthracene	0.21		0.041	0.0079	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Diethyl phthalate	<0.21	*	0.21	0.069	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Fluoranthene	1.8		0.041	0.0076	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Fluorene	0.045	*	0.041	0.0058	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Indeno[1,2,3-cd]pyrene	0.66		0.041	0.011	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B02

Lab Sample ID: 500-176792-2

Date Collected: 01/23/20 11:55

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
N-Nitrosodiphenylamine	<0.21 *		0.21	0.048	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Phenanthrene	0.54		0.041	0.0057	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Pyrene	1.3		0.041	0.0081	mg/Kg	☼	02/04/20 07:41	02/04/20 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		31 - 143				02/04/20 07:41	02/04/20 18:25	1
2-Fluorobiphenyl	94		43 - 145				02/04/20 07:41	02/04/20 18:25	1
2-Fluorophenol	124		31 - 166				02/04/20 07:41	02/04/20 18:25	1
Nitrobenzene-d5	84		37 - 147				02/04/20 07:41	02/04/20 18:25	1
Phenol-d5	103		30 - 153				02/04/20 07:41	02/04/20 18:25	1
Terphenyl-d14	108		42 - 157				02/04/20 07:41	02/04/20 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	9.0		1.0	0.37	mg/Kg	☼	02/04/20 07:41	02/06/20 03:11	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.2	0.24	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Arsenic	9.0		0.62	0.21	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Barium	73		0.62	0.070	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Beryllium	1.1		0.25	0.058	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Boron	18		3.1	0.29	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Cadmium	0.24	B	0.12	0.022	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Calcium	11000	B	12	2.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Chromium	24		0.62	0.30	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Cobalt	16		0.31	0.081	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Copper	29		0.62	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Iron	22000		12	6.4	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Lead	40		0.31	0.14	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Magnesium	9000		6.2	3.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Manganese	360		0.62	0.089	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Nickel	45		0.62	0.18	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Potassium	3500		31	11	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Selenium	<0.62		0.62	0.36	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Silver	4.7		0.31	0.079	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Sodium	200		62	9.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Vanadium	34		0.31	0.073	mg/Kg	☼	01/31/20 06:48	02/01/20 02:10	1
Zinc	83		1.2	0.54	mg/Kg	☼	01/31/20 06:48	02/03/20 19:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/20 06:31	02/10/20 18:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B02

Lab Sample ID: 500-176792-2

Date Collected: 01/23/20 11:55

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/20 06:31	02/10/20 18:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 18:58	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 18:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 18:58	1
Manganese	0.068		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 18:58	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.053		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:32	1
Barium	0.36	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:32	1
Beryllium	0.0055		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:32	1
Boron	0.11		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:32	1
Calcium	25		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:32	1
Chromium	0.10		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:32	1
Cobalt	0.027		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:32	1
Iron	110		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:32	1
Lead	0.13		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:32	1
Manganese	0.48		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:32	1
Nickel	0.14		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:32	1
Potassium	15		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:32	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:32	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:32	1
Zinc	0.38	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:32	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		02/10/20 06:31	02/11/20 12:46	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		02/08/20 16:41	02/11/20 11:32	1
Thallium	0.0026		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 21:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00034		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0062	mg/Kg	☼	02/10/20 15:05	02/11/20 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.32	mg/Kg	☼	02/06/20 10:00	02/06/20 14:36	1
pH	8.1		0.2	0.2	SU			01/30/20 14:32	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B03

Lab Sample ID: 500-176792-3

Date Collected: 01/23/20 11:45

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Chloroethane	<0.0048 *		0.0048	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Chloromethane	<0.0048 *		0.0048	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	01/24/20 17:25	02/04/20 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/24/20 17:25	02/04/20 17:46	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/24/20 17:25	02/04/20 17:46	1
Dibromofluoromethane	91		75 - 126	01/24/20 17:25	02/04/20 17:46	1
Toluene-d8 (Surr)	98		75 - 124	01/24/20 17:25	02/04/20 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2,2'-oxybis[1-chloropropane]	<0.20 *		0.20	0.047	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B03

Lab Sample ID: 500-176792-3

Date Collected: 01/23/20 11:45

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2-Methylnaphthalene	<0.081	*	0.081	0.0074	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Anthracene	<0.040	*	0.040	0.0067	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Benzo[b]fluoranthene	0.013	J	0.040	0.0087	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Chrysene	0.012	J	0.040	0.011	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Diethyl phthalate	<0.20	*	0.20	0.068	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Fluoranthene	0.022	J	0.040	0.0075	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Fluorene	<0.040	*	0.040	0.0057	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B03

Lab Sample ID: 500-176792-3

Date Collected: 01/23/20 11:45

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.048	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Pyrene	0.022	J	0.040	0.0080	mg/Kg	☼	02/04/20 07:41	02/04/20 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		31 - 143				02/04/20 07:41	02/04/20 18:54	1
2-Fluorobiphenyl	116		43 - 145				02/04/20 07:41	02/04/20 18:54	1
2-Fluorophenol	155		31 - 166				02/04/20 07:41	02/04/20 18:54	1
Nitrobenzene-d5	105		37 - 147				02/04/20 07:41	02/04/20 18:54	1
Phenol-d5	124		30 - 153				02/04/20 07:41	02/04/20 18:54	1
Terphenyl-d14	158	X	42 - 157				02/04/20 07:41	02/04/20 18:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.2	0.24	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Arsenic	9.5		0.62	0.21	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Barium	92		0.62	0.070	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Beryllium	1.1		0.25	0.057	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Boron	18		3.1	0.29	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Cadmium	0.29	B	0.12	0.022	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Calcium	24000	B	12	2.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Chromium	23		0.62	0.30	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Cobalt	16		0.31	0.081	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Copper	27		0.62	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Iron	21000		12	6.4	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Lead	36		0.31	0.14	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Magnesium	14000		6.2	3.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Manganese	390		0.62	0.089	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Nickel	39		0.62	0.18	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Potassium	3500		31	11	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Selenium	<0.62		0.62	0.36	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Silver	4.2		0.31	0.079	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Sodium	160		62	9.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Vanadium	35		0.31	0.073	mg/Kg	☼	01/31/20 06:48	02/01/20 02:14	1
Zinc	76		1.2	0.54	mg/Kg	☼	01/31/20 06:48	02/03/20 19:55	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		02/10/20 06:31	02/10/20 19:11	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 19:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 19:11	1
Manganese	0.054		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B03

Lab Sample ID: 500-176792-3

Date Collected: 01/23/20 11:45

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040	J	0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:36	1
Barium	0.39	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:36	1
Beryllium	0.0047		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:36	1
Boron	0.12		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:36	1
Calcium	33		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:36	1
Chromium	0.093		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:36	1
Cobalt	0.021	J	0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:36	1
Iron	92		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:36	1
Lead	0.071		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:36	1
Manganese	0.31		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:36	1
Nickel	0.098		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:36	1
Potassium	17		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:36	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:36	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:36	1
Zinc	0.21	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:36	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		02/10/20 06:31	02/11/20 12:48	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		02/08/20 16:41	02/11/20 11:34	1
Thallium	0.0024		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0066	mg/Kg	☼	02/10/20 15:05	02/11/20 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	02/06/20 10:00	02/06/20 14:36	1
pH	7.9		0.2	0.2	SU			01/30/20 14:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B04

Lab Sample ID: 500-176792-4

Date Collected: 01/23/20 11:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Chloroethane	<0.0048 *		0.0048	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Chloromethane	<0.0048 *		0.0048	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/24/20 17:25	02/04/20 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	01/24/20 17:25	02/04/20 18:12	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/24/20 17:25	02/04/20 18:12	1
Dibromofluoromethane	89		75 - 126	01/24/20 17:25	02/04/20 18:12	1
Toluene-d8 (Surr)	97		75 - 124	01/24/20 17:25	02/04/20 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2,2'-oxybis[1-chloropropane]	<0.21 *		0.21	0.049	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B04

Lab Sample ID: 500-176792-4

Date Collected: 01/23/20 11:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2-Methylnaphthalene	<0.085	*	0.085	0.0077	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Anthracene	<0.042	*	0.042	0.0070	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Chrysene	0.012	J	0.042	0.011	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Diethyl phthalate	<0.21	*	0.21	0.071	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Fluoranthene	0.019	J	0.042	0.0078	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Fluorene	<0.042	*	0.042	0.0059	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B04

Lab Sample ID: 500-176792-4

Date Collected: 01/23/20 11:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
N-Nitrosodiphenylamine	<0.21 *		0.21	0.050	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Pyrene	0.017	J	0.042	0.0083	mg/Kg	☼	02/04/20 07:41	02/04/20 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		31 - 143				02/04/20 07:41	02/04/20 19:23	1
2-Fluorobiphenyl	103		43 - 145				02/04/20 07:41	02/04/20 19:23	1
2-Fluorophenol	148		31 - 166				02/04/20 07:41	02/04/20 19:23	1
Nitrobenzene-d5	95		37 - 147				02/04/20 07:41	02/04/20 19:23	1
Phenol-d5	125		30 - 153				02/04/20 07:41	02/04/20 19:23	1
Terphenyl-d14	152		42 - 157				02/04/20 07:41	02/04/20 19:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.2	0.24	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Arsenic	8.3		0.62	0.21	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Barium	100		0.62	0.071	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Beryllium	0.99		0.25	0.058	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Boron	11		3.1	0.29	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Cadmium	0.19	B	0.12	0.022	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Calcium	2300	B	12	2.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Chromium	21		0.62	0.31	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Cobalt	16		0.31	0.081	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Copper	20		0.62	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Iron	20000		12	6.4	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Lead	25		0.31	0.14	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Magnesium	3300		6.2	3.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Manganese	540		0.62	0.090	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Nickel	26		0.62	0.18	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Potassium	2800		31	11	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Selenium	0.43	J	0.62	0.36	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Silver	4.5		0.31	0.080	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Sodium	98		62	9.2	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Vanadium	35		0.31	0.073	mg/Kg	☼	01/31/20 06:48	02/01/20 02:18	1
Zinc	66		1.2	0.54	mg/Kg	☼	01/31/20 06:48	02/03/20 19:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.70		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 19:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 19:16	1
Manganese	0.017	J	0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B04

Lab Sample ID: 500-176792-4

Date Collected: 01/23/20 11:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025	J	0.050	0.010	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Barium	0.41	J	0.50	0.050	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Beryllium	0.0040		0.0040	0.0040	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Boron	0.092	J	0.10	0.050	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Calcium	11		2.5	0.50	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Chromium	0.084		0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Cobalt	0.015	J	0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Iron	78		0.40	0.20	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Lead	0.045		0.0075	0.0075	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Manganese	0.40		0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Nickel	0.078		0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Potassium	12		2.5	0.50	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Silver	<0.025		0.025	0.010	mg/L	-	02/08/20 16:41	02/10/20 16:40	1
Zinc	0.42	J B	0.50	0.020	mg/L	-	02/08/20 16:41	02/10/20 16:40	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	-	02/08/20 16:41	02/11/20 11:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/08/20 16:41	02/10/20 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/10/20 10:45	02/11/20 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.021	0.0070	mg/Kg	☼	02/10/20 15:05	02/11/20 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.31	mg/Kg	☼	02/06/20 10:00	02/06/20 14:37	1
pH	7.0		0.2	0.2	SU			01/30/20 14:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B05

Lab Sample ID: 500-176792-5

Date Collected: 01/23/20 11:20

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
1,1-Dichloroethane	<0.0021		0.0021	0.00074	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
1,1-Dichloroethene	<0.0021		0.0021	0.00074	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Acetone	<0.021		0.021	0.0093	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Bromoform	<0.0021		0.0021	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Chloroethane	<0.0054 *		0.0054	0.0016	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Chloromethane	<0.0054 *		0.0054	0.0022	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Trichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	01/24/20 17:25	02/04/20 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	01/24/20 17:25	02/04/20 18:37	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/24/20 17:25	02/04/20 18:37	1
Dibromofluoromethane	94		75 - 126	01/24/20 17:25	02/04/20 18:37	1
Toluene-d8 (Surr)	95		75 - 124	01/24/20 17:25	02/04/20 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2,2'-oxybis[1-chloropropane]	<0.20 *		0.20	0.046	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B05

Lab Sample ID: 500-176792-5

Date Collected: 01/23/20 11:20

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2-Methylnaphthalene	<0.079	*	0.079	0.0072	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Anthracene	<0.039	*	0.039	0.0066	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Benzo[a]anthracene	0.017	J	0.039	0.0053	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Benzo[a]pyrene	0.031	J	0.039	0.0076	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Benzo[b]fluoranthene	0.025	J	0.039	0.0085	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Chrysene	0.024	J	0.039	0.011	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Diethyl phthalate	<0.20	*	0.20	0.067	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Fluoranthene	0.035	J	0.039	0.0073	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Fluorene	<0.039	*	0.039	0.0055	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B05

Lab Sample ID: 500-176792-5

Date Collected: 01/23/20 11:20

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.046	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Phenanthrene	0.022	J	0.039	0.0055	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Pyrene	0.030	J	0.039	0.0078	mg/Kg	☼	02/04/20 07:41	02/04/20 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		31 - 143				02/04/20 07:41	02/04/20 19:53	1
2-Fluorobiphenyl	97		43 - 145				02/04/20 07:41	02/04/20 19:53	1
2-Fluorophenol	128		31 - 166				02/04/20 07:41	02/04/20 19:53	1
Nitrobenzene-d5	86		37 - 147				02/04/20 07:41	02/04/20 19:53	1
Phenol-d5	110		30 - 153				02/04/20 07:41	02/04/20 19:53	1
Terphenyl-d14	141		42 - 157				02/04/20 07:41	02/04/20 19:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.22	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Arsenic	11		0.56	0.19	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Barium	29		0.56	0.064	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Beryllium	0.73		0.22	0.052	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Boron	13		2.8	0.26	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Cadmium	0.17	B	0.11	0.020	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Calcium	28000	B	11	1.9	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Chromium	15		0.56	0.28	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Cobalt	19		0.28	0.073	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Copper	35		0.56	0.16	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Iron	19000		11	5.8	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Lead	27		0.28	0.13	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Magnesium	20000		5.6	2.8	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Manganese	280		0.56	0.081	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Nickel	40		0.56	0.16	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Potassium	2500		28	9.9	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Silver	3.7		0.28	0.072	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Sodium	220		56	8.3	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Thallium	0.35	J	0.56	0.28	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Vanadium	20		0.28	0.066	mg/Kg	☼	01/31/20 06:48	02/01/20 02:22	1
Zinc	53		1.1	0.49	mg/Kg	☼	01/31/20 06:48	02/03/20 20:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/20 06:31	02/10/20 19:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/20 06:31	02/10/20 19:20	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:20	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 19:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Client Sample ID: 2955V-35-B05

Lab Sample ID: 500-176792-5

Date Collected: 01/23/20 11:20

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 83.6

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		02/10/20 06:31	02/10/20 19:20	1
Manganese	0.26		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:20	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:44	1
Barium	0.35	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:44	1
Beryllium	0.0056		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:44	1
Boron	0.15		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:44	1
Calcium	35		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:44	1
Chromium	0.11		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:44	1
Cobalt	0.035		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:44	1
Iron	120		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:44	1
Lead	0.093		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:44	1
Manganese	0.42		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:44	1
Nickel	0.14		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:44	1
Potassium	20		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:44	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:44	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:44	1
Zinc	0.31	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:44	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		02/10/20 06:31	02/11/20 12:50	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		02/08/20 16:41	02/11/20 11:38	1
Thallium	0.0035		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 21:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0061	mg/Kg	☼	02/10/20 15:05	02/11/20 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.43		0.43	0.21	mg/Kg	☼	02/06/20 10:00	02/06/20 14:38	1
pH	8.3		0.2	0.2	SU			01/30/20 14:42	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176792-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
*	LCS or LCSD is outside acceptance 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
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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	 500-176792 COC	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>AE7-33A</u> Project No.: <u>PTB/WO-184-006/33A</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 <u>Shawn Frutse</u> Sampler:	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176792</u> Sample Temp: <u>3.3, 4.8</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.
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES																					
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization					
1	2955V-35-1201	1/23	1205	S	X	X					X	X	X	X	X						
2	2955V-35-1202	}	1155		↓	↓					↓	↓	↓	↓	↓						
3	2955V-35-1203		1145									↓	↓	↓	↓	↓					
4	2955V-35-1204		1130									↓	↓	↓	↓	↓					
5	2955V-35-1205		1120									↓	↓	↓	↓	↓					

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	*** Cyanide	pH	% Solids	Waste Characterization				Comments	
1	2955V-35-1201	1/23	1205	S	X	X					X	X	X	X	X						
2	2955V-35-1202	}	1155		↓	↓					↓	↓	↓	↓	↓						
3	2955V-35-1203		1145									↓	↓	↓	↓	↓					
4	2955V-35-1204		1130									↓	↓	↓	↓	↓					
5	2955V-35-1205		1120									↓	↓	↓	↓	↓					

Relinquished by: <u>Matt Lu</u>	Date/Time: <u>1/23 1350</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/23/20 1350</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1306-1326 W 55th St, 1215-1233 W 54th Pl, 5421-5441 Edgewood, 801-5420 Country Club Dr, 1-906 Calle View Dr, 1202 Brainard

City: La Grange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79037 Longitude: -87.88219
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 1,226

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-36-B01, -B02, -B03, -B04, -B05, -B06, -B08, -B09, -B10, -B13 AND -B14 WERE SAMPLED ADJACENT TO SITE 2955V-36. SEE TABLE 3q AND FIGURES 6 AND 7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-176653-1, 500-176718-1 AND 500-176795-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-36

Residences

Sample ID	2955V-36-B01-1	2955V-36-B01-2	2955V-36-B02-1	2955V-36-B02-1 DUP	2955V-36-B02-2	Maximum Allowable Concentration				
Sample Depth (ft)	0-4	4-8	0-4	0-4	4-8	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area
Sample Date	1/21/2020	1/21/2020	1/21/2020	1/21/2020	1/21/2020					
PID	0	0	0	0	0					
Sample pH	8.6	8.5	8.6	8.7	8.7					
Matrix	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	0.076	J 0.016	ND	ND	J 0.021	0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)										
Arsenic	7	8.2	9.8	8.2	8	11.3	--	11.3	--	13

Sample ID	2955V-36-B03-1	2955V-36-B03-2	2955V-36-B04-1	2955V-36-B04-2	2955V-36-B05-1	Maximum Allowable Concentration					
Sample Depth (ft)	0-4	4-8	0-4	4-8	0-4	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area	
Sample Date	1/21/2020	1/21/2020	1/21/2020	1/21/2020	1/21/2020						
PID	0	0	0	0	0						
Sample pH	8.5	8.2	8	8.3	8.6						
Matrix	Soil	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	J 0.016	ND	0.059	ND	J 0.025	0.09	0.09	0.98	1.3	2.1	
Inorganic Compounds, Total (mg/kg)											
Arsenic	12	1.3	8.8	8.7	7.7	7.8	11.3	--	11.3	--	13

Sample ID	2955V-36-B05-2	2955V-36-B06-1	2955V-36-B06-2	2955V-36-B08-1	2955V-36-B08-2	Maximum Allowable Concentration				
Sample Depth (ft)	4-8	0-4	4-8	0-4	4-8	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area
Sample Date	1/21/2020	1/21/2020	1/21/2020	1/22/2020	1/22/2020					
PID	0	0	0	0	0					
Sample pH	8.2	8.9	8.5	8.8	8.8					
Matrix	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	ND	ND	J 0.021	J 0.019	ND	0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)										
Arsenic	7.6	7.9	6.8	5.9	7.1	11.3	--	11.3	--	13

ISGS Site 2955V-36

Residences

Sample ID	2955V-36-B09-1	2955V-36-B09-2	2955V-36-B10-1	2955V-36-B10-2	2955V-36-B13-1	Maximum Allowable Concentration				
Sample Depth (ft)	0-4	4-8	0-4	4-8	0-4	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area
Sample Date	1/22/2020	1/22/2020	1/22/2020	1/22/2020	1/23/2020					
PID	0	0	0	0	0					
Sample pH	8.4	9	8.8	8.4	8.6					
Matrix	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	ND	J 0.021	ND	J 0.011	ND	0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)										
Arsenic	9.4	8.5	8.3	8.5	6.9	11.3	--	11.3	--	13

Sample ID	2955V-36-B13-2	2955V-36-B14-1	2955V-36-B14-2	Maximum Allowable Concentration				
Sample Depth (ft)	4-8	0-4	43929	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area
Sample Date	1/23/2020	1/23/2020	1/23/2020					
PID	0	0	0					
Sample pH	8.6	8.5	8.3					
Matrix	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)								
Benzo(a)pyrene	J 0.011	ND	ND	0.09	0.09	0.98	1.3	2.1
Inorganic Compounds, Total (mg/kg)								
Arsenic	10	6.3	7.5	11.3	--	11.3	--	13

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176653-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
2/7/2020 12:40:07 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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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B06-1

Lab Sample ID: 500-176653-1

Date Collected: 01/21/20 12:00

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	01/21/20 17:25	01/31/20 17:34	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/21/20 17:25	01/31/20 17:34	1
Dibromofluoromethane	90		75 - 126	01/21/20 17:25	01/31/20 17:34	1
Toluene-d8 (Surr)	99		75 - 124	01/21/20 17:25	01/31/20 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B06-1

Lab Sample ID: 500-176653-1

Date Collected: 01/21/20 12:00

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2,4-Dinitrophenol	<0.78	F1	0.78	0.68	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B06-1

Lab Sample ID: 500-176653-1

Date Collected: 01/21/20 12:00

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	01/31/20 16:29	02/03/20 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		31 - 143				01/31/20 16:29	02/03/20 16:11	1
2-Fluorobiphenyl	78		43 - 145				01/31/20 16:29	02/03/20 16:11	1
2-Fluorophenol	82		31 - 166				01/31/20 16:29	02/03/20 16:11	1
Nitrobenzene-d5	76		37 - 147				01/31/20 16:29	02/03/20 16:11	1
Phenol-d5	84		30 - 153				01/31/20 16:29	02/03/20 16:11	1
Terphenyl-d14	118		42 - 157				01/31/20 16:29	02/03/20 16:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J F1	1.1	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Arsenic	7.9	F1	0.57	0.19	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Barium	45		0.57	0.065	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Beryllium	0.89		0.23	0.053	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Boron	15		2.8	0.26	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Calcium	47000	B	110	19	mg/Kg	☼	01/29/20 06:49	01/30/20 21:37	10
Chromium	18		0.57	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Cobalt	12		0.28	0.074	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Copper	24	F1	0.57	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Iron	19000	B	11	5.9	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Lead	8.8	F1	0.28	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 15:21	1
Magnesium	21000	B	5.7	2.8	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Manganese	340	B	0.57	0.082	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Nickel	30	F1	0.57	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Potassium	3300		28	10	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Selenium	<0.57	F1	0.57	0.33	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Silver	0.16	J	0.28	0.073	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Sodium	550		57	8.4	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Thallium	<0.57	F1	0.57	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Vanadium	24		0.28	0.067	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1
Zinc	53	F1	1.1	0.50	mg/Kg	☼	01/29/20 06:49	01/30/20 06:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 08:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 08:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:36	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 08:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B06-1

Lab Sample ID: 500-176653-1

Date Collected: 01/21/20 12:00

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.6

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		02/05/20 15:35	02/06/20 08:36	1
Manganese	0.10		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:36	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.076		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 18:21	1
Barium	0.54		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 18:21	1
Beryllium	0.0077		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 18:21	1
Boron	0.21		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 18:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 18:21	1
Calcium	69		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:21	1
Chromium	0.19		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:21	1
Cobalt	0.042		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:21	1
Iron	180		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 18:21	1
Lead	0.074		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 18:21	1
Manganese	0.72		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:21	1
Nickel	0.18		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:21	1
Potassium	37 ^		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 18:21	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:21	1
Zinc	0.42 J		0.50	0.020	mg/L		02/02/20 16:01	02/03/20 18:21	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		02/05/20 15:35	02/06/20 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/20 16:01	02/03/20 14:07	1
Thallium	0.0054		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00037		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014 J		0.019	0.0063	mg/Kg	☼	02/06/20 13:55	02/07/20 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.40		0.40	0.20	mg/Kg	☼	01/31/20 13:05	01/31/20 15:28	1
pH	8.9		0.2	0.2	SU			01/28/20 21:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B06-2

Lab Sample ID: 500-176653-2

Date Collected: 01/21/20 12:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Acetone	<0.015		0.015	0.0066	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Carbon disulfide	<0.0038		0.0038	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Ethylbenzene	<0.0015		0.0015	0.00072	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Vinyl chloride	<0.0015		0.0015	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	01/21/20 17:25	01/31/20 18:00	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/21/20 17:25	01/31/20 18:00	1
Dibromofluoromethane	93		75 - 126	01/21/20 17:25	01/31/20 18:00	1
Toluene-d8 (Surr)	96		75 - 124	01/21/20 17:25	01/31/20 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B06-2

Lab Sample ID: 500-176653-2

Date Collected: 01/21/20 12:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Benzo[a]anthracene	0.018	J	0.038	0.0051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Benzo[a]pyrene	0.021	J	0.038	0.0074	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Benzo[b]fluoranthene	0.037	J	0.038	0.0082	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Benzo[g,h,i]perylene	0.020	J	0.038	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Benzo[k]fluoranthene	0.011	J	0.038	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Chrysene	0.026	J	0.038	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B06-2

Lab Sample ID: 500-176653-2

Date Collected: 01/21/20 12:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.017	J	0.038	0.0099	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Phenanthrene	0.012	J	0.038	0.0053	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Pyrene	0.032	J	0.038	0.0076	mg/Kg	☼	01/31/20 16:29	02/03/20 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	88		31 - 143				01/31/20 16:29	02/03/20 16:35	1
2-Fluorobiphenyl	102		43 - 145				01/31/20 16:29	02/03/20 16:35	1
2-Fluorophenol	96		31 - 166				01/31/20 16:29	02/03/20 16:35	1
Nitrobenzene-d5	100		37 - 147				01/31/20 16:29	02/03/20 16:35	1
Phenol-d5	100		30 - 153				01/31/20 16:29	02/03/20 16:35	1
Terphenyl-d14	133		42 - 157				01/31/20 16:29	02/03/20 16:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Arsenic	6.8		0.55	0.19	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Barium	59		0.55	0.063	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Beryllium	0.94		0.22	0.052	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Boron	16		2.8	0.26	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Calcium	53000	B	110	19	mg/Kg	☼	01/29/20 06:49	01/30/20 22:08	10
Chromium	19		0.55	0.27	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Cobalt	12		0.28	0.073	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Copper	21		0.55	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Iron	19000	B	11	5.8	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Lead	9.7		0.28	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 15:43	1
Magnesium	23000	B	5.5	2.8	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Manganese	340	B	0.55	0.080	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Nickel	29		0.55	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Potassium	3500		28	9.8	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Selenium	0.38	J	0.55	0.33	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Silver	0.19	J	0.28	0.072	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Sodium	580		55	8.2	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Vanadium	26		0.28	0.065	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1
Zinc	54		1.1	0.49	mg/Kg	☼	01/29/20 06:49	01/30/20 06:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 08:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 08:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:40	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 08:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B06-2

Lab Sample ID: 500-176653-2

Date Collected: 01/21/20 12:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.5

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		02/05/20 15:35	02/06/20 08:40	1
Manganese	0.040		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:40	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.061		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 18:34	1
Barium	0.56		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 18:34	1
Beryllium	0.0072		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 18:34	1
Boron	0.18		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 18:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 18:34	1
Calcium	59		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:34	1
Chromium	0.18		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:34	1
Cobalt	0.044		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:34	1
Iron	170		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 18:34	1
Lead	0.081		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 18:34	1
Manganese	0.80		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:34	1
Nickel	0.18		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:34	1
Potassium	33		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 18:34	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:34	1
Zinc	0.41	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 18:34	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		02/05/20 15:35	02/06/20 11:31	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		02/02/20 16:01	02/03/20 14:09	1
Thallium	0.0051		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00038		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.0063	mg/Kg	☼	02/06/20 13:55	02/07/20 07:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.41		0.41	0.20	mg/Kg	☼	01/31/20 13:05	01/31/20 15:28	1
pH	8.5		0.2	0.2	SU			01/28/20 21:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B05-1

Lab Sample ID: 500-176653-3

Date Collected: 01/21/20 12:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	01/21/20 17:25	01/31/20 18:25	1
4-Bromofluorobenzene (Surr)	109		75 - 131	01/21/20 17:25	01/31/20 18:25	1
Dibromofluoromethane	88		75 - 126	01/21/20 17:25	01/31/20 18:25	1
Toluene-d8 (Surr)	99		75 - 124	01/21/20 17:25	01/31/20 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B05-1

Lab Sample ID: 500-176653-3

Date Collected: 01/21/20 12:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Acenaphthylene	0.0075	J	0.039	0.0052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Benzo[a]anthracene	0.020	J	0.039	0.0053	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Benzo[a]pyrene	0.025	J	0.039	0.0077	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Benzo[b]fluoranthene	0.039		0.039	0.0085	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Benzo[g,h,i]perylene	0.019	J	0.039	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Benzo[k]fluoranthene	0.015	J	0.039	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Chrysene	0.029	J	0.039	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Fluoranthene	0.032	J	0.039	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B05-1

Lab Sample ID: 500-176653-3

Date Collected: 01/21/20 12:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.017	J	0.039	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Phenanthrene	0.020	J	0.039	0.0055	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Pyrene	0.032	J	0.039	0.0079	mg/Kg	☼	01/31/20 16:29	02/03/20 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		31 - 143				01/31/20 16:29	02/03/20 16:59	1
2-Fluorobiphenyl	95		43 - 145				01/31/20 16:29	02/03/20 16:59	1
2-Fluorophenol	98		31 - 166				01/31/20 16:29	02/03/20 16:59	1
Nitrobenzene-d5	94		37 - 147				01/31/20 16:29	02/03/20 16:59	1
Phenol-d5	100		30 - 153				01/31/20 16:29	02/03/20 16:59	1
Terphenyl-d14	133		42 - 157				01/31/20 16:29	02/03/20 16:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J	1.2	0.23	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Arsenic	7.8		0.60	0.20	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Barium	81		0.60	0.068	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Beryllium	1.1		0.24	0.056	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Boron	17		3.0	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Calcium	28000	B	12	2.0	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Chromium	22		0.60	0.30	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Cobalt	14		0.30	0.078	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Copper	24		0.60	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Iron	23000	B	12	6.2	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Lead	26		0.30	0.14	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Magnesium	15000	B	6.0	3.0	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Manganese	410	B	0.60	0.087	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Nickel	33		0.60	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Potassium	3900		30	11	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Silver	0.25	J	0.30	0.077	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Sodium	690		60	8.8	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Vanadium	32		0.30	0.070	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1
Zinc	68		1.2	0.52	mg/Kg	☼	01/29/20 06:49	01/30/20 06:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 08:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 08:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:45	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 08:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B05-1

Lab Sample ID: 500-176653-3

Date Collected: 01/21/20 12:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.6

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		02/05/20 15:35	02/06/20 08:45	1
Manganese	0.042		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:45	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.061		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 18:39	1
Barium	0.62		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 18:39	1
Beryllium	0.0074		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 18:39	1
Boron	0.19		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 18:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 18:39	1
Calcium	50		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:39	1
Chromium	0.17		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:39	1
Cobalt	0.037		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:39	1
Iron	170		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 18:39	1
Lead	0.081		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 18:39	1
Manganese	0.64		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:39	1
Nickel	0.17		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:39	1
Potassium	31		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 18:39	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:39	1
Zinc	0.49	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 18:39	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		02/05/20 15:35	02/06/20 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/20 16:01	02/03/20 14:15	1
Thallium	0.0044		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00040		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0063	mg/Kg	☼	02/06/20 13:55	02/07/20 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.42		0.42	0.21	mg/Kg	☼	01/31/20 13:05	01/31/20 15:29	1
pH	8.6		0.2	0.2	SU			01/28/20 21:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B05-2

Lab Sample ID: 500-176653-4

Date Collected: 01/21/20 12:20

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/21/20 17:25	01/31/20 18:50	1
4-Bromofluorobenzene (Surr)	105		75 - 131	01/21/20 17:25	01/31/20 18:50	1
Dibromofluoromethane	99		75 - 126	01/21/20 17:25	01/31/20 18:50	1
Toluene-d8 (Surr)	94		75 - 124	01/21/20 17:25	01/31/20 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B05-2

Lab Sample ID: 500-176653-4

Date Collected: 01/21/20 12:20

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B05-2

Lab Sample ID: 500-176653-4

Date Collected: 01/21/20 12:20

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	01/31/20 16:29	02/03/20 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		31 - 143				01/31/20 16:29	02/03/20 17:24	1
2-Fluorobiphenyl	80		43 - 145				01/31/20 16:29	02/03/20 17:24	1
2-Fluorophenol	88		31 - 166				01/31/20 16:29	02/03/20 17:24	1
Nitrobenzene-d5	80		37 - 147				01/31/20 16:29	02/03/20 17:24	1
Phenol-d5	89		30 - 153				01/31/20 16:29	02/03/20 17:24	1
Terphenyl-d14	118		42 - 157				01/31/20 16:29	02/03/20 17:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.3	0.25	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Arsenic	7.6		0.64	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Barium	94		0.64	0.072	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Beryllium	1.1		0.25	0.059	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Boron	10		3.2	0.30	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Cadmium	<0.13		0.13	0.023	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Calcium	2500	B	13	2.2	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Chromium	22		0.64	0.31	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Cobalt	15		0.32	0.083	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Copper	19		0.64	0.18	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Iron	23000	B	13	6.6	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Lead	20		0.32	0.15	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Magnesium	3700	B	6.4	3.2	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Manganese	420	B	0.64	0.092	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Nickel	27		0.64	0.18	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Potassium	3000		32	11	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Selenium	0.87		0.64	0.37	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Silver	0.24	J	0.32	0.082	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Sodium	1000		64	9.4	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Vanadium	34		0.32	0.075	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1
Zinc	56		1.3	0.56	mg/Kg	☼	01/29/20 06:49	01/30/20 06:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 08:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 08:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:49	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 08:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B05-2

Lab Sample ID: 500-176653-4

Date Collected: 01/21/20 12:20

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 78.1

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		02/05/20 15:35	02/06/20 08:49	1
Manganese	0.013	J	0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:49	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 18:43	1
Barium	0.73		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 18:43	1
Beryllium	0.0090		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 18:43	1
Boron	0.18		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 18:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 18:43	1
Calcium	17		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:43	1
Chromium	0.21		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:43	1
Cobalt	0.035		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:43	1
Iron	190		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 18:43	1
Lead	0.052		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 18:43	1
Manganese	0.63		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:43	1
Nickel	0.23		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:43	1
Potassium	30		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 18:43	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:43	1
Zinc	0.42	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 18:43	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		02/05/20 15:35	02/06/20 11:35	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		02/02/20 16:01	02/03/20 14:17	1
Thallium	0.0065		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00047		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.0067	mg/Kg	☼	02/06/20 13:55	02/07/20 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.64		0.64	0.32	mg/Kg	☼	01/31/20 13:05	01/31/20 15:29	1
pH	8.2		0.2	0.2	SU			01/28/20 21:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B04-1

Lab Sample ID: 500-176653-5

Date Collected: 01/21/20 12:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	01/21/20 17:25	01/31/20 19:15	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/21/20 17:25	01/31/20 19:15	1
Dibromofluoromethane	93		75 - 126	01/21/20 17:25	01/31/20 19:15	1
Toluene-d8 (Surr)	95		75 - 124	01/21/20 17:25	01/31/20 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B04-1

Lab Sample ID: 500-176653-5

Date Collected: 01/21/20 12:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Anthracene	0.0095	J	0.040	0.0068	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Benzo[a]anthracene	0.055		0.040	0.0055	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Benzo[a]pyrene	0.059		0.040	0.0079	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Benzo[b]fluoranthene	0.096		0.040	0.0088	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Benzo[g,h,i]perylene	0.035	J	0.040	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Benzo[k]fluoranthene	0.032	J	0.040	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Chrysene	0.070		0.040	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Dibenz(a,h)anthracene	0.011	J	0.040	0.0079	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Fluoranthene	0.11		0.040	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B04-1

Lab Sample ID: 500-176653-5

Date Collected: 01/21/20 12:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.032	J	0.040	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Phenanthrene	0.049		0.040	0.0057	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Pyrene	0.098		0.040	0.0081	mg/Kg	☼	01/31/20 16:29	02/03/20 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		31 - 143				01/31/20 16:29	02/03/20 17:48	1
2-Fluorobiphenyl	102		43 - 145				01/31/20 16:29	02/03/20 17:48	1
2-Fluorophenol	98		31 - 166				01/31/20 16:29	02/03/20 17:48	1
Nitrobenzene-d5	98		37 - 147				01/31/20 16:29	02/03/20 17:48	1
Phenol-d5	102		30 - 153				01/31/20 16:29	02/03/20 17:48	1
Terphenyl-d14	135		42 - 157				01/31/20 16:29	02/03/20 17:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.3	0.24	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Arsenic	8.7		0.63	0.21	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Barium	100		0.63	0.072	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Beryllium	1.2		0.25	0.059	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Boron	14		3.1	0.29	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Cadmium	<0.13		0.13	0.023	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Calcium	12000	B	13	2.1	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Chromium	23		0.63	0.31	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Cobalt	18		0.31	0.082	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Copper	25		0.63	0.18	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Iron	25000	B	13	6.5	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Lead	48		0.31	0.15	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Magnesium	8900	B	6.3	3.1	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Manganese	550	B	0.63	0.091	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Nickel	33		0.63	0.18	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Potassium	3600		31	11	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Selenium	0.64		0.63	0.37	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Silver	0.31		0.31	0.081	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Sodium	400		63	9.3	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Vanadium	35		0.31	0.074	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	1
Zinc	78		1.3	0.55	mg/Kg	☼	01/29/20 06:49	01/30/20 06:55	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		02/05/20 15:35	02/06/20 08:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:53	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 08:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/20 15:35	02/06/20 08:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B04-1

Lab Sample ID: 500-176653-5

Date Collected: 01/21/20 12:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.011	J	0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:53	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040	J	0.050	0.010	mg/L		02/02/20 16:01	02/03/20 18:47	1
Barium	0.43	J	0.50	0.050	mg/L		02/02/20 16:01	02/03/20 18:47	1
Beryllium	0.0050		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 18:47	1
Boron	0.15		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 18:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 18:47	1
Calcium	30		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:47	1
Chromium	0.12		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:47	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:47	1
Iron	110		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 18:47	1
Lead	0.077		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 18:47	1
Manganese	0.44		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:47	1
Nickel	0.11		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:47	1
Potassium	23		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 18:47	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:47	1
Zinc	0.28	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 18:47	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		02/05/20 15:35	02/06/20 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/20 16:01	02/03/20 14:19	1
Thallium	0.0024		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.021	0.0069	mg/Kg	☼	02/06/20 13:55	02/07/20 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.26	mg/Kg	☼	01/31/20 13:05	01/31/20 15:29	1
pH	8.0		0.2	0.2	SU			01/28/20 21:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B04-2

Lab Sample ID: 500-176653-6

Date Collected: 01/21/20 12:30

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0027		0.0027	0.00092	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
1,1,2,2-Tetrachloroethane	<0.0027		0.0027	0.00087	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
1,1,2-Trichloroethane	<0.0027		0.0027	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
1,1-Dichloroethane	<0.0027		0.0027	0.00094	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
1,1-Dichloroethene	<0.0027		0.0027	0.00094	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
1,2-Dichloroethane	<0.0068		0.0068	0.0021	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
1,2-Dichloropropane	<0.0027		0.0027	0.00071	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
1,3-Dichloropropene, Total	<0.0027		0.0027	0.00096	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
2-Butanone (MEK)	<0.0068		0.0068	0.0030	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
2-Hexanone	<0.0068		0.0068	0.0021	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
4-Methyl-2-pentanone (MIBK)	<0.0068		0.0068	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Acetone	<0.027		0.027	0.012	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Benzene	<0.0027		0.0027	0.00070	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Bromodichloromethane	<0.0027		0.0027	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Bromoform	<0.0027		0.0027	0.00080	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Bromomethane	<0.0068		0.0068	0.0026	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Carbon disulfide	<0.0068		0.0068	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Carbon tetrachloride	<0.0027		0.0027	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Chlorobenzene	<0.0027		0.0027	0.0010	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Chloroethane	<0.0068		0.0068	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Chloroform	<0.0027		0.0027	0.00095	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Chloromethane	<0.0068		0.0068	0.0028	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
cis-1,2-Dichloroethene	<0.0027		0.0027	0.00077	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
cis-1,3-Dichloropropene	<0.0027		0.0027	0.00083	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Dibromochloromethane	<0.0027		0.0027	0.00090	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Ethylbenzene	<0.0027		0.0027	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Methyl tert-butyl ether	<0.0027		0.0027	0.00080	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Methylene Chloride	<0.0068		0.0068	0.0027	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Styrene	<0.0027		0.0027	0.00083	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Tetrachloroethene	<0.0027		0.0027	0.00093	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Toluene	<0.0027		0.0027	0.00069	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
trans-1,2-Dichloroethene	<0.0027		0.0027	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
trans-1,3-Dichloropropene	<0.0027		0.0027	0.00096	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Trichloroethene	<0.0027		0.0027	0.00093	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Vinyl chloride	<0.0027		0.0027	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1
Xylenes, Total	<0.0055		0.0055	0.00088	mg/Kg	☼	01/21/20 17:25	01/31/20 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/21/20 17:25	01/31/20 19:40	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/21/20 17:25	01/31/20 19:40	1
Dibromofluoromethane	88		75 - 126	01/21/20 17:25	01/31/20 19:40	1
Toluene-d8 (Surr)	98		75 - 124	01/21/20 17:25	01/31/20 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B04-2

Lab Sample ID: 500-176653-6

Date Collected: 01/21/20 12:30

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B04-2

Lab Sample ID: 500-176653-6

Date Collected: 01/21/20 12:30

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	01/31/20 16:29	02/03/20 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		31 - 143				01/31/20 16:29	02/03/20 18:13	1
2-Fluorobiphenyl	83		43 - 145				01/31/20 16:29	02/03/20 18:13	1
2-Fluorophenol	85		31 - 166				01/31/20 16:29	02/03/20 18:13	1
Nitrobenzene-d5	80		37 - 147				01/31/20 16:29	02/03/20 18:13	1
Phenol-d5	95		30 - 153				01/31/20 16:29	02/03/20 18:13	1
Terphenyl-d14	139		42 - 157				01/31/20 16:29	02/03/20 18:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.3	0.25	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Arsenic	7.7		0.63	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Barium	110		0.63	0.072	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Beryllium	1.2		0.25	0.059	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Boron	16		3.2	0.29	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Cadmium	<0.13		0.13	0.023	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Calcium	22000	B	13	2.1	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Chromium	24		0.63	0.31	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Cobalt	16		0.32	0.083	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Copper	25		0.63	0.18	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Iron	24000	B	13	6.6	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Lead	22		0.32	0.15	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Magnesium	12000	B	6.3	3.1	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Manganese	460	B	0.63	0.092	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Nickel	37		0.63	0.18	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Potassium	4100		32	11	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Selenium	0.47	J	0.63	0.37	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Silver	0.29	J	0.32	0.081	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Sodium	1200		63	9.3	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Thallium	<0.63		0.63	0.32	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Vanadium	35		0.32	0.074	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1
Zinc	64		1.3	0.55	mg/Kg	☼	01/29/20 06:49	01/30/20 07:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 08:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 08:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:58	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 08:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B04-2

Lab Sample ID: 500-176653-6

Date Collected: 01/21/20 12:30

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 76.7

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		02/05/20 15:35	02/06/20 08:58	1
Manganese	0.064		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:58	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 08:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 18:52	1
Barium	0.73		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 18:52	1
Beryllium	0.0076		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 18:52	1
Boron	0.15		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 18:52	1
Calcium	29		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:52	1
Chromium	0.18		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:52	1
Cobalt	0.036		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:52	1
Iron	160		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 18:52	1
Lead	0.057		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 18:52	1
Manganese	0.81		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:52	1
Nickel	0.17		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:52	1
Potassium	29		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 18:52	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:52	1
Zinc	0.35	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 18:52	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		02/05/20 15:35	02/06/20 11:39	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		02/02/20 16:01	02/03/20 14:21	1
Thallium	0.0037		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00042		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.021	0.0071	mg/Kg	☼	02/06/20 13:55	02/07/20 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	01/31/20 13:05	01/31/20 15:30	1
pH	8.3		0.2	0.2	SU			01/28/20 21:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B03-1

Lab Sample ID: 500-176653-7

Date Collected: 01/21/20 13:00

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Acetone	<0.022		0.022	0.0094	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Styrene	<0.0022		0.0022	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Trichloroethene	<0.0022		0.0022	0.00073	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	01/21/20 17:25	01/31/20 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	01/21/20 17:25	01/31/20 20:05	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/21/20 17:25	01/31/20 20:05	1
Dibromofluoromethane	90		75 - 126	01/21/20 17:25	01/31/20 20:05	1
Toluene-d8 (Surr)	96		75 - 124	01/21/20 17:25	01/31/20 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B03-1

Lab Sample ID: 500-176653-7

Date Collected: 01/21/20 13:00

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Benzo[a]anthracene	0.013	J	0.039	0.0053	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Benzo[a]pyrene	0.016	J	0.039	0.0077	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Benzo[b]fluoranthene	0.023	J	0.039	0.0086	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Chrysene	0.018	J	0.039	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Fluoranthene	0.025	J	0.039	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B03-1

Lab Sample ID: 500-176653-7

Date Collected: 01/21/20 13:00

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Phenanthrene	0.013	J	0.039	0.0055	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Pyrene	0.024	J	0.039	0.0079	mg/Kg	☼	01/31/20 16:29	02/03/20 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		31 - 143				01/31/20 16:29	02/03/20 18:37	1
2-Fluorobiphenyl	85		43 - 145				01/31/20 16:29	02/03/20 18:37	1
2-Fluorophenol	87		31 - 166				01/31/20 16:29	02/03/20 18:37	1
Nitrobenzene-d5	80		37 - 147				01/31/20 16:29	02/03/20 18:37	1
Phenol-d5	92		30 - 153				01/31/20 16:29	02/03/20 18:37	1
Terphenyl-d14	136		42 - 157				01/31/20 16:29	02/03/20 18:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.80	J	1.2	0.23	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Arsenic	12		0.59	0.20	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Barium	82		0.59	0.067	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Beryllium	1.2		0.24	0.055	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Boron	14		2.9	0.27	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Calcium	11000	B	12	2.0	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Chromium	22		0.59	0.29	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Cobalt	20		0.29	0.077	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Copper	34		0.59	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Iron	28000	B	12	6.1	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Lead	28		0.29	0.14	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Magnesium	8100	B	5.9	2.9	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Manganese	500	B	0.59	0.085	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Nickel	40		0.59	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Potassium	3400		29	10	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Selenium	0.65		0.59	0.35	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Silver	0.30		0.29	0.076	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Sodium	870		59	8.7	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Vanadium	34		0.29	0.069	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1
Zinc	70		1.2	0.52	mg/Kg	☼	01/29/20 06:49	01/30/20 07:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 09:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 09:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:11	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B03-1

Lab Sample ID: 500-176653-7

Date Collected: 01/21/20 13:00

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 81.2

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		02/05/20 15:35	02/06/20 09:11	1
Manganese	0.15		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.061		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 18:56	1
Barium	0.49	J	0.50	0.050	mg/L		02/02/20 16:01	02/03/20 18:56	1
Beryllium	0.0068		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 18:56	1
Boron	0.15		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 18:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 18:56	1
Calcium	23		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:56	1
Chromium	0.15		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:56	1
Cobalt	0.031		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:56	1
Iron	150		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 18:56	1
Lead	0.069		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 18:56	1
Manganese	0.59		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:56	1
Nickel	0.17		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:56	1
Potassium	25		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 18:56	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 18:56	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 18:56	1
Zinc	0.33	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 18:56	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		02/05/20 15:35	02/06/20 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/20 16:01	02/03/20 14:23	1
Thallium	0.0052		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00043		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0067	mg/Kg	☼	02/06/20 13:55	02/07/20 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.30	mg/Kg	☼	01/31/20 13:05	01/31/20 15:30	1
pH	8.5		0.2	0.2	SU			01/28/20 21:37	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B03-2

Lab Sample ID: 500-176653-8

Date Collected: 01/21/20 13:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	01/21/20 17:25	01/31/20 20:30	1
4-Bromofluorobenzene (Surr)	110		75 - 131	01/21/20 17:25	01/31/20 20:30	1
Dibromofluoromethane	92		75 - 126	01/21/20 17:25	01/31/20 20:30	1
Toluene-d8 (Surr)	96		75 - 124	01/21/20 17:25	01/31/20 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B03-2

Lab Sample ID: 500-176653-8

Date Collected: 01/21/20 13:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Benzo[a]anthracene	0.0088	J	0.040	0.0054	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Benzo[b]fluoranthene	0.015	J	0.040	0.0087	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Chrysene	0.014	J	0.040	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Fluoranthene	0.019	J	0.040	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B03-2

Lab Sample ID: 500-176653-8

Date Collected: 01/21/20 13:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Phenanthrene	0.0091	J	0.040	0.0056	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Pyrene	0.017	J	0.040	0.0080	mg/Kg	☼	01/31/20 16:29	02/03/20 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		31 - 143				01/31/20 16:29	02/03/20 19:02	1
2-Fluorobiphenyl	78		43 - 145				01/31/20 16:29	02/03/20 19:02	1
2-Fluorophenol	79		31 - 166				01/31/20 16:29	02/03/20 19:02	1
Nitrobenzene-d5	72		37 - 147				01/31/20 16:29	02/03/20 19:02	1
Phenol-d5	82		30 - 153				01/31/20 16:29	02/03/20 19:02	1
Terphenyl-d14	116		42 - 157				01/31/20 16:29	02/03/20 19:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.3	0.24	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Arsenic	8.8		0.63	0.21	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Barium	110		0.63	0.071	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Beryllium	0.99		0.25	0.058	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Boron	11		3.1	0.29	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Cadmium	<0.13		0.13	0.023	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Calcium	4900	B	13	2.1	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Chromium	19		0.63	0.31	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Cobalt	14		0.31	0.082	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Copper	24		0.63	0.18	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Iron	22000	B	13	6.5	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Lead	23		0.31	0.14	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Magnesium	3900	B	6.3	3.1	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Manganese	550	B	0.63	0.091	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Nickel	27		0.63	0.18	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Potassium	2900		31	11	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Selenium	0.96		0.63	0.37	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Silver	0.25	J	0.31	0.081	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Sodium	1300		63	9.3	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Vanadium	30		0.31	0.074	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	1
Zinc	69		1.3	0.55	mg/Kg	☼	01/29/20 06:49	01/30/20 07:22	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		02/05/20 15:35	02/06/20 09:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:15	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/20 15:35	02/06/20 09:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B03-2

Lab Sample ID: 500-176653-8

Date Collected: 01/21/20 13:05

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:15	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040	J	0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:00	1
Barium	0.45	J	0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:00	1
Beryllium	0.0050		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:00	1
Boron	0.14		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:00	1
Calcium	15		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:00	1
Chromium	0.11		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:00	1
Cobalt	0.023	J	0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:00	1
Iron	120		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:00	1
Lead	0.040		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:00	1
Manganese	0.54		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:00	1
Nickel	0.12		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:00	1
Potassium	21		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:00	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:00	1
Zinc	0.32	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:00	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		02/05/20 15:35	02/06/20 11:47	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		02/02/20 16:01	02/03/20 14:25	1
Thallium	0.0052		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.021	0.0069	mg/Kg	☼	02/06/20 13:55	02/07/20 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.29	mg/Kg	☼	01/31/20 13:05	01/31/20 15:30	1
pH	8.2		0.2	0.2	SU			01/28/20 21:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02-1

Lab Sample ID: 500-176653-9

Date Collected: 01/21/20 13:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	01/21/20 17:25	01/31/20 20:55	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/21/20 17:25	01/31/20 20:55	1
Dibromofluoromethane	90		75 - 126	01/21/20 17:25	01/31/20 20:55	1
Toluene-d8 (Surr)	98		75 - 124	01/21/20 17:25	01/31/20 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02-1

Lab Sample ID: 500-176653-9

Date Collected: 01/21/20 13:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02-1

Lab Sample ID: 500-176653-9

Date Collected: 01/21/20 13:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/31/20 16:29	02/03/20 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		31 - 143				01/31/20 16:29	02/03/20 19:26	1
2-Fluorobiphenyl	83		43 - 145				01/31/20 16:29	02/03/20 19:26	1
2-Fluorophenol	84		31 - 166				01/31/20 16:29	02/03/20 19:26	1
Nitrobenzene-d5	78		37 - 147				01/31/20 16:29	02/03/20 19:26	1
Phenol-d5	90		30 - 153				01/31/20 16:29	02/03/20 19:26	1
Terphenyl-d14	127		42 - 157				01/31/20 16:29	02/03/20 19:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.1	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Arsenic	9.8		0.56	0.19	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Barium	56		0.56	0.064	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Beryllium	0.98		0.23	0.053	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Boron	17		2.8	0.26	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Calcium	32000	B	11	1.9	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Chromium	20		0.56	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Cobalt	21		0.28	0.074	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Copper	32		0.56	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Iron	23000	B	11	5.9	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Lead	16		0.28	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Magnesium	20000	B	5.6	2.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Manganese	390	B	0.56	0.082	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Nickel	41		0.56	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Potassium	3500		28	10	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Silver	0.20	J	0.28	0.073	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Sodium	980		56	8.3	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Vanadium	27		0.28	0.067	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1
Zinc	65		1.1	0.49	mg/Kg	☼	01/29/20 06:49	01/30/20 07:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 09:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 09:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:19	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02-1

Lab Sample ID: 500-176653-9

Date Collected: 01/21/20 13:15

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.4

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		02/05/20 15:35	02/06/20 09:19	1
Manganese	0.15		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.082		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:04	1
Barium	0.47	J	0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:04	1
Beryllium	0.0071		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:04	1
Boron	0.20		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:04	1
Calcium	27		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:04	1
Chromium	0.16		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:04	1
Cobalt	0.042		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:04	1
Iron	180		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:04	1
Lead	0.083		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:04	1
Manganese	0.62		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:04	1
Nickel	0.19		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:04	1
Potassium	31		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:04	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:04	1
Zinc	0.41	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:04	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		02/05/20 15:35	02/06/20 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/20 16:01	02/03/20 14:27	1
Thallium	0.0068		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00047	F1	0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0064	mg/Kg	☼	02/06/20 13:55	02/07/20 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	☼	01/31/20 13:05	01/31/20 15:31	1
pH	8.7		0.2	0.2	SU			01/28/20 21:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02 Dup

Lab Sample ID: 500-176653-10

Date Collected: 01/21/20 13:20

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/21/20 17:25	01/31/20 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/21/20 17:25	01/31/20 21:20	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/21/20 17:25	01/31/20 21:20	1
Dibromofluoromethane	93		75 - 126	01/21/20 17:25	01/31/20 21:20	1
Toluene-d8 (Surr)	96		75 - 124	01/21/20 17:25	01/31/20 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02 Dup

Lab Sample ID: 500-176653-10

Date Collected: 01/21/20 13:20

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02 Dup

Lab Sample ID: 500-176653-10

Date Collected: 01/21/20 13:20

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/31/20 16:29	02/03/20 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		31 - 143				01/31/20 16:29	02/03/20 16:06	1
2-Fluorobiphenyl	71		43 - 145				01/31/20 16:29	02/03/20 16:06	1
2-Fluorophenol	79		31 - 166				01/31/20 16:29	02/03/20 16:06	1
Nitrobenzene-d5	60		37 - 147				01/31/20 16:29	02/03/20 16:06	1
Phenol-d5	83		30 - 153				01/31/20 16:29	02/03/20 16:06	1
Terphenyl-d14	116		42 - 157				01/31/20 16:29	02/03/20 16:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.2	0.23	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Arsenic	8.2		0.60	0.20	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Barium	58		0.60	0.068	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Beryllium	1.1		0.24	0.056	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Boron	17		3.0	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Calcium	20000	B	12	2.0	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Chromium	22		0.60	0.30	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Cobalt	14		0.30	0.078	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Copper	31		0.60	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Iron	24000	B	12	6.2	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Lead	16		0.30	0.14	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Magnesium	14000	B	6.0	3.0	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Manganese	370	B	0.60	0.087	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Nickel	39		0.60	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Potassium	3600		30	11	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Silver	0.25	J	0.30	0.077	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Sodium	1200		60	8.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Vanadium	30		0.30	0.071	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1
Zinc	64		1.2	0.53	mg/Kg	☼	01/29/20 06:49	01/30/20 07:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 09:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 09:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:23	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02 Dup

Lab Sample ID: 500-176653-10

Date Collected: 01/21/20 13:20

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 81.4

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		02/05/20 15:35	02/06/20 09:23	1
Manganese	0.11		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:23	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.094		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:09	1
Barium	0.59		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:09	1
Beryllium	0.0090		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:09	1
Boron	0.19		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:09	1
Calcium	37		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:09	1
Chromium	0.21		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:09	1
Cobalt	0.053		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:09	1
Iron	230		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:09	1
Lead	0.093		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:09	1
Manganese	0.90		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:09	1
Nickel	0.24		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:09	1
Potassium	34		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:09	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:09	1
Zinc	0.49	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:09	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		02/05/20 15:35	02/06/20 11:52	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		02/02/20 16:01	02/03/20 14:29	1
Thallium	0.0065		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00052		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0061	mg/Kg	☼	02/06/20 13:55	02/07/20 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.43		0.43	0.22	mg/Kg	☼	01/31/20 13:05	01/31/20 15:32	1
pH	8.6		0.2	0.2	SU			01/28/20 21:47	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02-2

Lab Sample ID: 500-176653-11

Date Collected: 01/21/20 13:25

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/21/20 17:25	01/31/20 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	01/21/20 17:25	01/31/20 21:45	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/21/20 17:25	01/31/20 21:45	1
Dibromofluoromethane	90		75 - 126	01/21/20 17:25	01/31/20 21:45	1
Toluene-d8 (Surr)	97		75 - 124	01/21/20 17:25	01/31/20 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02-2

Lab Sample ID: 500-176653-11

Date Collected: 01/21/20 13:25

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Benzo[a]anthracene	0.015	J	0.039	0.0052	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Benzo[a]pyrene	0.021	J	0.039	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Benzo[b]fluoranthene	0.035	J	0.039	0.0084	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Benzo[k]fluoranthene	0.012	J	0.039	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Chrysene	0.021	J	0.039	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Fluoranthene	0.028	J	0.039	0.0072	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02-2

Lab Sample ID: 500-176653-11

Date Collected: 01/21/20 13:25

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Phenanthrene	0.012	J	0.039	0.0054	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Pyrene	0.028	J	0.039	0.0077	mg/Kg	☼	01/31/20 16:29	02/03/20 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		31 - 143				01/31/20 16:29	02/03/20 16:30	1
2-Fluorobiphenyl	61		43 - 145				01/31/20 16:29	02/03/20 16:30	1
2-Fluorophenol	66		31 - 166				01/31/20 16:29	02/03/20 16:30	1
Nitrobenzene-d5	54		37 - 147				01/31/20 16:29	02/03/20 16:30	1
Phenol-d5	71		30 - 153				01/31/20 16:29	02/03/20 16:30	1
Terphenyl-d14	110		42 - 157				01/31/20 16:29	02/03/20 16:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.1	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Arsenic	8.0		0.56	0.19	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Barium	71		0.56	0.064	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Beryllium	1.1		0.23	0.053	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Boron	16		2.8	0.26	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Calcium	25000	B	11	1.9	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Chromium	20		0.56	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Cobalt	14		0.28	0.074	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Copper	28		0.56	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Iron	23000	B	11	5.9	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Lead	20		0.28	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Magnesium	18000	B	5.6	2.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Manganese	320	B	0.56	0.082	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Nickel	38		0.56	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Potassium	3400		28	10	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Silver	0.25	J	0.28	0.073	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Sodium	930		56	8.3	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Vanadium	28		0.28	0.066	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1
Zinc	61		1.1	0.49	mg/Kg	☼	01/29/20 06:49	01/30/20 07:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 09:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 09:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:28	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B02-2

Lab Sample ID: 500-176653-11

Date Collected: 01/21/20 13:25

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 82.9

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		02/05/20 15:35	02/06/20 09:28	1
Manganese	0.25		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:28	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.088		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:13	1
Barium	0.69		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:13	1
Beryllium	0.0091		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:13	1
Boron	0.20		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:13	1
Calcium	34		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:13	1
Chromium	0.21		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:13	1
Cobalt	0.048		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:13	1
Iron	220		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:13	1
Lead	0.097		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:13	1
Manganese	0.80		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:13	1
Nickel	0.24		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:13	1
Potassium	35		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:13	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:13	1
Zinc	0.46	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:13	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		02/05/20 15:35	02/06/20 11:54	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		02/02/20 16:01	02/03/20 14:31	1
Thallium	0.0075		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00061		0.00033	0.00033	mg/L		02/06/20 10:15	02/07/20 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0059	mg/Kg	☼	02/06/20 13:55	02/07/20 08:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.30	mg/Kg	☼	01/31/20 13:05	01/31/20 15:32	1
pH	8.7		0.2	0.2	SU			01/28/20 21:50	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B01-1

Lab Sample ID: 500-176653-12

Date Collected: 01/21/20 13:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Acetone	0.0087	J	0.018	0.0077	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/21/20 17:25	01/31/20 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	01/21/20 17:25	01/31/20 22:11	1
4-Bromofluorobenzene (Surr)	114		75 - 131	01/21/20 17:25	01/31/20 22:11	1
Dibromofluoromethane	88		75 - 126	01/21/20 17:25	01/31/20 22:11	1
Toluene-d8 (Surr)	101		75 - 124	01/21/20 17:25	01/31/20 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B01-1

Lab Sample ID: 500-176653-12

Date Collected: 01/21/20 13:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2-Methylnaphthalene	0.024	J	0.076	0.0069	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Anthracene	0.016	J	0.037	0.0063	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Benzo[a]anthracene	0.065		0.037	0.0051	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Benzo[a]pyrene	0.076		0.037	0.0073	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Benzo[b]fluoranthene	0.12		0.037	0.0081	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Benzo[g,h,i]perylene	0.037		0.037	0.012	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Benzo[k]fluoranthene	0.037		0.037	0.011	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Chrysene	0.083		0.037	0.010	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Fluoranthene	0.13		0.037	0.0070	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Fluorene	0.0057	J	0.037	0.0053	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B01-1

Lab Sample ID: 500-176653-12

Date Collected: 01/21/20 13:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.034	J	0.037	0.0098	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Phenanthrene	0.098		0.037	0.0052	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Pyrene	0.11		0.037	0.0075	mg/Kg	☼	01/31/20 16:29	02/04/20 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		31 - 143				01/31/20 16:29	02/04/20 12:40	1
2-Fluorobiphenyl	83		43 - 145				01/31/20 16:29	02/04/20 12:40	1
2-Fluorophenol	84		31 - 166				01/31/20 16:29	02/04/20 12:40	1
Nitrobenzene-d5	71		37 - 147				01/31/20 16:29	02/04/20 12:40	1
Phenol-d5	89		30 - 153				01/31/20 16:29	02/04/20 12:40	1
Terphenyl-d14	114		42 - 157				01/31/20 16:29	02/04/20 12:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.22	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Arsenic	7.0		0.55	0.19	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Barium	60		0.55	0.063	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Beryllium	0.95		0.22	0.052	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Boron	18		2.8	0.26	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Calcium	50000	B	110	19	mg/Kg	☼	01/29/20 06:49	01/30/20 22:13	10
Chromium	18		0.55	0.27	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Cobalt	13		0.28	0.073	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Copper	24		0.55	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Iron	19000	B	11	5.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Lead	11		0.28	0.13	mg/Kg	☼	01/29/20 06:49	01/30/20 15:56	1
Magnesium	22000	B	5.5	2.7	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Manganese	280	B	0.55	0.080	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Nickel	32		0.55	0.16	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Potassium	3800		28	9.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Selenium	0.33	J	0.55	0.33	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Silver	0.21	J	0.28	0.072	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Sodium	390		55	8.2	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Vanadium	23		0.28	0.065	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1
Zinc	58		1.1	0.49	mg/Kg	☼	01/29/20 06:49	01/30/20 07:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 09:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 09:32	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:32	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B01-1

Lab Sample ID: 500-176653-12

Date Collected: 01/21/20 13:35

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 84.7

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		02/05/20 15:35	02/06/20 09:32	1
Manganese	0.33		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:32	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.067		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:26	1
Barium	0.54		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:26	1
Beryllium	0.0074		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:26	1
Boron	0.22		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:26	1
Calcium	56		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:26	1
Chromium	0.17		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:26	1
Cobalt	0.038		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:26	1
Iron	160		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:26	1
Lead	0.10		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:26	1
Manganese	0.65		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:26	1
Nickel	0.17		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:26	1
Potassium	35		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:26	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:26	1
Zinc	0.52		0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:26	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		02/05/20 15:35	02/06/20 11:56	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		02/02/20 16:01	02/03/20 14:34	1
Thallium	0.0048		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00035		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0064	mg/Kg	☼	02/06/20 13:55	02/07/20 08:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	01/31/20 13:05	01/31/20 15:33	1
pH	8.6		0.2	0.2	SU			01/28/20 21:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B01-2

Lab Sample ID: 500-176653-13

Date Collected: 01/21/20 13:40

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
2-Butanone (MEK)	<0.0051		0.0051	0.0022	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	01/21/20 17:25	02/03/20 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/21/20 17:25	02/03/20 11:16	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/21/20 17:25	02/03/20 11:16	1
Dibromofluoromethane	104		75 - 126	01/21/20 17:25	02/03/20 11:16	1
Toluene-d8 (Surr)	87		75 - 124	01/21/20 17:25	02/03/20 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B01-2

Lab Sample ID: 500-176653-13

Date Collected: 01/21/20 13:40

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Benzo[a]anthracene	0.014	J	0.040	0.0054	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Benzo[a]pyrene	0.016	J	0.040	0.0078	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Benzo[b]fluoranthene	0.027	J	0.040	0.0087	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Chrysene	0.020	J	0.040	0.011	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Fluoranthene	0.024	J	0.040	0.0075	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B01-2

Lab Sample ID: 500-176653-13

Date Collected: 01/21/20 13:40

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Phenanthrene	0.017	J	0.040	0.0056	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Pyrene	0.028	J	0.040	0.0080	mg/Kg	☼	01/31/20 16:29	02/03/20 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		31 - 143				01/31/20 16:29	02/03/20 17:20	1
2-Fluorobiphenyl	70		43 - 145				01/31/20 16:29	02/03/20 17:20	1
2-Fluorophenol	72		31 - 166				01/31/20 16:29	02/03/20 17:20	1
Nitrobenzene-d5	60		37 - 147				01/31/20 16:29	02/03/20 17:20	1
Phenol-d5	75		30 - 153				01/31/20 16:29	02/03/20 17:20	1
Terphenyl-d14	113		42 - 157				01/31/20 16:29	02/03/20 17:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.2	0.23	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Arsenic	8.2		0.59	0.20	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Barium	79		0.59	0.068	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Beryllium	1.0		0.24	0.055	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Boron	16		3.0	0.28	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Calcium	27000	B	12	2.0	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Chromium	21		0.59	0.29	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Cobalt	16		0.30	0.078	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Copper	25		0.59	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Iron	22000	B	12	6.2	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Lead	32		0.30	0.14	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Magnesium	15000	B	5.9	2.9	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Manganese	500	B	0.59	0.086	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Nickel	34		0.59	0.17	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Potassium	3400		30	11	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Selenium	0.48	J	0.59	0.35	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Silver	0.29	J	0.30	0.077	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Sodium	540		59	8.8	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Vanadium	31		0.30	0.070	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1
Zinc	65		1.2	0.52	mg/Kg	☼	01/29/20 06:49	01/30/20 07:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/05/20 15:35	02/06/20 09:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/20 15:35	02/06/20 09:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:36	1
Iron	<0.40		0.40	0.20	mg/L		02/05/20 15:35	02/06/20 09:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

Client Sample ID: 2955V-36-B01-2

Lab Sample ID: 500-176653-13

Date Collected: 01/21/20 13:40

Matrix: Solid

Date Received: 01/21/20 15:45

Percent Solids: 80.7

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		02/05/20 15:35	02/06/20 09:36	1
Manganese	0.34		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:36	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/20 15:35	02/06/20 09:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.057		0.050	0.010	mg/L		02/02/20 16:01	02/03/20 19:30	1
Barium	0.62		0.50	0.050	mg/L		02/02/20 16:01	02/03/20 19:30	1
Beryllium	0.0078		0.0040	0.0040	mg/L		02/02/20 16:01	02/03/20 19:30	1
Boron	0.20		0.10	0.050	mg/L		02/02/20 16:01	02/03/20 19:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/20 16:01	02/03/20 19:30	1
Calcium	45		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:30	1
Chromium	0.18		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:30	1
Cobalt	0.035		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:30	1
Iron	170		0.40	0.20	mg/L		02/02/20 16:01	02/03/20 19:30	1
Lead	0.070		0.0075	0.0075	mg/L		02/02/20 16:01	02/03/20 19:30	1
Manganese	0.59		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:30	1
Nickel	0.18		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:30	1
Potassium	32		2.5	0.50	mg/L		02/02/20 16:01	02/03/20 19:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/20 16:01	02/03/20 19:30	1
Silver	<0.025		0.025	0.010	mg/L		02/02/20 16:01	02/03/20 19:30	1
Zinc	0.47	J	0.50	0.020	mg/L		02/02/20 16:01	02/03/20 19:30	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		02/05/20 15:35	02/06/20 11:58	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		02/02/20 16:01	02/03/20 14:40	1
Thallium	0.0048		0.0020	0.0020	mg/L		02/02/20 16:01	02/03/20 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00045		0.00020	0.00020	mg/L		02/06/20 10:15	02/07/20 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0065	mg/Kg	☼	02/06/20 13:55	02/07/20 08:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.29	mg/Kg	☼	01/31/20 13:05	01/31/20 15:33	1
pH	8.5		0.2	0.2	SU			01/28/20 21:56	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176653-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance 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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

500-176653

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	Project Name: <u>AET-33A</u>	COC No.: <u>1</u> of <u>2</u>
	Address: 2417 Bond Street University Park, IL 60484	Project No.: <u>PTB/WO:184-006/33A</u>	Lab Job No.:
Phone: 708-534-5200	Contact: Dick Wright	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>41.8, 5.1</u>
email: richard.wright@testamericainc.com	email: <u>richard.wright@testamericainc.com</u>	Sampler: <u>Josh Hey</u>	Matrix Key:

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits.
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.
*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES												
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	QR Code
X	X					X	X	X	X	X		500-176653 COC

- 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	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2955V-36-1306-1	1/21	1200	S	X	X					X	X	X	X	X		
2	2955V-36-1306-2		1205														
3	2955V-36-1305-1		1215														
4	2955V-36-1305-2		1220														
5	2955V-36-1304-1		1235														
6	2955V-36-1304-2		1230														
7	2955V-36-1303-1		1300														
8	2955V-36-1303-2		1305														
9	2955V-36-1302-1		1315														
10	2955V-36-1302-1 Dup		1320														
11	2955V-36-1302-2		1325														

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/21 1545</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/21 1545</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



CHAIN OF CUSTODY RECORD

500-1710653

Client Contact	Laboratory	Project Name: <u>AE7-33A</u>	COC No.: <u>2 of 2</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>PT13/WB-184-006/33A</u>	Lab Job No.:
		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 <u>Josh Hoy</u>	Sample Temp: <u>41, 58, 51</u>
		Sampler:	Matrix Key:

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits.
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.
*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCS	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
12	2955V-36-1301-1	1/21	1335	S	X	X					X	X	X	X	X		
13	2955V-36-1301-2	1/21	1340														
	2955V-36-1301-3																
	2955V-36-1301-4																
	2955V-36-1301-5																
	2955V-36-1301-6																
	2955V-36-1301-7																
	2955V-36-1301-8																
	2955V-36-1301-9																
	2955V-36-1301-10																

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/21 1545</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/21/20 1545</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176718-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/10/2020 12:29:54 PM

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

LINKS

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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B08-1

Lab Sample ID: 500-176718-4

Date Collected: 01/22/20 09:20

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/22/20 17:10	02/02/20 11:33	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/22/20 17:10	02/02/20 11:33	1
Dibromofluoromethane	96		75 - 126	01/22/20 17:10	02/02/20 11:33	1
Toluene-d8 (Surr)	92		75 - 124	01/22/20 17:10	02/02/20 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B08-1

Lab Sample ID: 500-176718-4

Date Collected: 01/22/20 09:20

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Benzo[a]anthracene	0.017	J	0.040	0.0054	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Benzo[a]pyrene	0.019	J	0.040	0.0078	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Benzo[b]fluoranthene	0.025	J	0.040	0.0087	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Benzo[g,h,i]perylene	0.017	J	0.040	0.013	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Chrysene	0.024	J	0.040	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Fluoranthene	0.059		0.040	0.0075	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B08-1

Lab Sample ID: 500-176718-4

Date Collected: 01/22/20 09:20

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Phenanthrene	0.020	J	0.040	0.0056	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Pyrene	0.031	J	0.040	0.0080	mg/Kg	☼	01/31/20 16:48	02/03/20 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		31 - 143				01/31/20 16:48	02/03/20 13:10	1
2-Fluorobiphenyl	102		43 - 145				01/31/20 16:48	02/03/20 13:10	1
2-Fluorophenol	101		31 - 166				01/31/20 16:48	02/03/20 13:10	1
Nitrobenzene-d5	101		37 - 147				01/31/20 16:48	02/03/20 13:10	1
Phenol-d5	74		30 - 153				01/31/20 16:48	02/03/20 13:10	1
Terphenyl-d14	126		42 - 157				01/31/20 16:48	02/03/20 13:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.2	0.23	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Arsenic	5.9		0.59	0.20	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Barium	50	B	0.59	0.067	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Beryllium	0.93		0.24	0.055	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Boron	18		2.9	0.27	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Cadmium	0.23	B	0.12	0.021	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Calcium	52000	B	120	20	mg/Kg	☼	01/30/20 07:14	01/31/20 11:41	10
Chromium	22		0.59	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Cobalt	12		0.29	0.077	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Copper	20		0.59	0.16	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Iron	18000	B	12	6.1	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Lead	12		0.29	0.14	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Magnesium	21000		5.9	2.9	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Manganese	290	B	0.59	0.085	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Nickel	33		0.59	0.17	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Potassium	3800		29	10	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Selenium	0.35	J	0.59	0.35	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Silver	3.0		0.29	0.076	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Sodium	420		59	8.7	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Vanadium	25		0.29	0.070	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1
Zinc	72	B	1.2	0.52	mg/Kg	☼	01/30/20 07:14	01/30/20 20:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/06/20 14:35	02/07/20 09:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/06/20 14:35	02/07/20 09:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 09:58	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 09:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B08-1

Lab Sample ID: 500-176718-4

Date Collected: 01/22/20 09:20

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 82.3

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		02/06/20 14:35	02/07/20 09:58	1
Manganese	0.42		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 09:58	1
Nickel	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.079		0.050	0.010	mg/L		02/05/20 15:33	02/06/20 12:07	1
Barium	0.51		0.50	0.050	mg/L		02/05/20 15:33	02/06/20 12:07	1
Beryllium	0.0086		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 12:07	1
Boron	0.24		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 12:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 12:07	1
Calcium	66		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:07	1
Chromium	0.16		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:07	1
Cobalt	0.043		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:07	1
Iron	160		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 12:07	1
Lead	0.081		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 12:07	1
Manganese	0.63		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:07	1
Nickel	0.19		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:07	1
Potassium	38		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:07	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 12:07	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:07	1
Zinc	0.52		0.50	0.020	mg/L		02/05/20 15:33	02/06/20 12:07	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		02/06/20 14:35	02/07/20 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/05/20 15:33	02/06/20 12:24	1
Thallium	0.0043		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0060	mg/Kg	☼	02/07/20 14:15	02/10/20 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.24	mg/Kg	☼	02/03/20 13:00	02/03/20 15:57	1
pH	8.8		0.2	0.2	SU			01/29/20 13:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B08-2

Lab Sample ID: 500-176718-5

Date Collected: 01/22/20 09:25

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Acetone	<0.018		0.018	0.0076	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	01/22/20 17:10	02/02/20 11:58	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/22/20 17:10	02/02/20 11:58	1
Dibromofluoromethane	94		75 - 126	01/22/20 17:10	02/02/20 11:58	1
Toluene-d8 (Surr)	96		75 - 124	01/22/20 17:10	02/02/20 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B08-2

Lab Sample ID: 500-176718-5

Date Collected: 01/22/20 09:25

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Benzo[b]fluoranthene	0.012	J	0.039	0.0084	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Benzo[g,h,i]perylene	0.016	J	0.039	0.013	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Fluoranthene	0.039		0.039	0.0072	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B08-2

Lab Sample ID: 500-176718-5

Date Collected: 01/22/20 09:25

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Phenanthrene	0.032	J	0.039	0.0054	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Pyrene	0.028	J	0.039	0.0077	mg/Kg	☼	01/31/20 16:48	02/03/20 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		31 - 143				01/31/20 16:48	02/03/20 16:00	1
2-Fluorobiphenyl	104		43 - 145				01/31/20 16:48	02/03/20 16:00	1
2-Fluorophenol	103		31 - 166				01/31/20 16:48	02/03/20 16:00	1
Nitrobenzene-d5	104		37 - 147				01/31/20 16:48	02/03/20 16:00	1
Phenol-d5	76		30 - 153				01/31/20 16:48	02/03/20 16:00	1
Terphenyl-d14	129		42 - 157				01/31/20 16:48	02/03/20 16:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.22	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Arsenic	7.1		0.56	0.19	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Barium	34	B	0.56	0.064	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Beryllium	0.84		0.22	0.052	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Boron	17		2.8	0.26	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Cadmium	0.32	B	0.11	0.020	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Calcium	48000	B	110	19	mg/Kg	☼	01/30/20 07:14	01/31/20 11:45	10
Chromium	18		0.56	0.28	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Cobalt	14		0.28	0.074	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Copper	27		0.56	0.16	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Iron	18000	B	11	5.8	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Lead	18		0.28	0.13	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Magnesium	21000		5.6	2.8	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Manganese	260	B	0.56	0.081	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Nickel	36		0.56	0.16	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Potassium	3200		28	9.9	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Selenium	1.1		0.56	0.33	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Silver	2.4		0.28	0.072	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Sodium	320		56	8.3	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Thallium	0.40	J	0.56	0.28	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Vanadium	23		0.28	0.066	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	1
Zinc	71	B	1.1	0.49	mg/Kg	☼	01/30/20 07:14	01/30/20 20:19	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		02/06/20 14:35	02/07/20 10:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:02	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 10:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/06/20 14:35	02/07/20 10:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B08-2

Lab Sample ID: 500-176718-5

Date Collected: 01/22/20 09:25

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.82		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:02	1
Nickel	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040	J	0.050	0.010	mg/L		02/05/20 15:33	02/06/20 12:11	1
Barium	0.34	J	0.50	0.050	mg/L		02/05/20 15:33	02/06/20 12:11	1
Beryllium	0.0061		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 12:11	1
Boron	0.20		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 12:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 12:11	1
Calcium	44		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:11	1
Chromium	0.13		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:11	1
Cobalt	0.038		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:11	1
Iron	100		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 12:11	1
Lead	0.075		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 12:11	1
Manganese	0.48		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:11	1
Nickel	0.15		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:11	1
Potassium	32		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 12:11	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:11	1
Zinc	0.42	J	0.50	0.020	mg/L		02/05/20 15:33	02/06/20 12:11	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		02/06/20 14:35	02/07/20 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/05/20 15:33	02/06/20 12:26	1
Thallium	0.0043		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0061	mg/Kg	☼	02/07/20 14:15	02/10/20 08:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	02/03/20 13:00	02/03/20 15:57	1
pH	8.8		0.2	0.2	SU			01/29/20 13:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B09-1

Lab Sample ID: 500-176718-6

Date Collected: 01/22/20 09:40

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	01/22/20 17:10	02/02/20 12:24	1
4-Bromofluorobenzene (Surr)	111		75 - 131	01/22/20 17:10	02/02/20 12:24	1
Dibromofluoromethane	88		75 - 126	01/22/20 17:10	02/02/20 12:24	1
Toluene-d8 (Surr)	97		75 - 124	01/22/20 17:10	02/02/20 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B09-1

Lab Sample ID: 500-176718-6

Date Collected: 01/22/20 09:40

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Benzo[a]anthracene	0.0057	J	0.039	0.0053	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Fluoranthene	0.037	J	0.039	0.0073	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B09-1

Lab Sample ID: 500-176718-6

Date Collected: 01/22/20 09:40

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Phenanthrene	0.0099	J	0.039	0.0055	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Pyrene	0.0087	J	0.039	0.0078	mg/Kg	☼	01/31/20 16:48	02/03/20 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		31 - 143				01/31/20 16:48	02/03/20 13:38	1
2-Fluorobiphenyl	75		43 - 145				01/31/20 16:48	02/03/20 13:38	1
2-Fluorophenol	75		31 - 166				01/31/20 16:48	02/03/20 13:38	1
Nitrobenzene-d5	74		37 - 147				01/31/20 16:48	02/03/20 13:38	1
Phenol-d5	61		30 - 153				01/31/20 16:48	02/03/20 13:38	1
Terphenyl-d14	132		42 - 157				01/31/20 16:48	02/03/20 13:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.2	0.23	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Arsenic	9.4		0.58	0.20	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Barium	56	B	0.58	0.066	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Beryllium	1.0		0.23	0.054	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Boron	16		2.9	0.27	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Cadmium	0.20	B	0.12	0.021	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Calcium	52000	B	120	20	mg/Kg	☼	01/30/20 07:14	01/31/20 11:49	10
Chromium	21		0.58	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Cobalt	18		0.29	0.076	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Copper	26		0.58	0.16	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Iron	22000	B	12	6.0	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Lead	17		0.29	0.13	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Magnesium	21000		5.8	2.9	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Manganese	360	B	0.58	0.084	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Nickel	40		0.58	0.17	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Potassium	3300		29	10	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Selenium	0.56	J	0.58	0.34	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Silver	3.2		0.29	0.075	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Sodium	650		58	8.6	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Vanadium	28		0.29	0.068	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1
Zinc	66	B	1.2	0.51	mg/Kg	☼	01/30/20 07:14	01/30/20 20:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/06/20 14:35	02/07/20 10:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/06/20 14:35	02/07/20 10:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:06	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 10:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B09-1

Lab Sample ID: 500-176718-6

Date Collected: 01/22/20 09:40

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 82.9

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		02/06/20 14:35	02/07/20 10:06	1
Manganese	0.47		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:06	1
Nickel	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.094		0.050	0.010	mg/L		02/05/20 15:33	02/06/20 12:15	1
Barium	0.52		0.50	0.050	mg/L		02/05/20 15:33	02/06/20 12:15	1
Beryllium	0.0089		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 12:15	1
Boron	0.24		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 12:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 12:15	1
Calcium	62		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:15	1
Chromium	0.16		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:15	1
Cobalt	0.044		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:15	1
Iron	180		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 12:15	1
Lead	0.094		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 12:15	1
Manganese	0.69		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:15	1
Nickel	0.19		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:15	1
Potassium	36		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 12:15	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:15	1
Zinc	0.49	J	0.50	0.020	mg/L		02/05/20 15:33	02/06/20 12:15	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		02/06/20 14:35	02/07/20 12:57	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		02/05/20 15:33	02/06/20 12:36	1
Thallium	0.0035		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00032		0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0065	mg/Kg	☼	02/07/20 14:15	02/10/20 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.28	mg/Kg	☼	02/03/20 13:00	02/03/20 15:58	1
pH	9.0		0.2	0.2	SU			01/29/20 13:24	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B09-2

Lab Sample ID: 500-176718-7

Date Collected: 01/22/20 09:45

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	01/22/20 17:10	02/02/20 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	01/22/20 17:10	02/02/20 12:50	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/22/20 17:10	02/02/20 12:50	1
Dibromofluoromethane	91		75 - 126	01/22/20 17:10	02/02/20 12:50	1
Toluene-d8 (Surr)	96		75 - 124	01/22/20 17:10	02/02/20 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B09-2

Lab Sample ID: 500-176718-7

Date Collected: 01/22/20 09:45

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Benzo[a]anthracene	0.015	J	0.040	0.0054	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Benzo[a]pyrene	0.021	J	0.040	0.0078	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Benzo[b]fluoranthene	0.026	J	0.040	0.0087	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Benzo[g,h,i]perylene	0.019	J	0.040	0.013	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Benzo[k]fluoranthene	0.014	J	0.040	0.012	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Chrysene	0.022	J	0.040	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Fluoranthene	0.054		0.040	0.0075	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B09-2

Lab Sample ID: 500-176718-7

Date Collected: 01/22/20 09:45

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.013	J	0.040	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Phenanthrene	0.011	J	0.040	0.0056	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Pyrene	0.026	J	0.040	0.0080	mg/Kg	☼	01/31/20 16:48	02/03/20 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		31 - 143				01/31/20 16:48	02/03/20 14:37	1
2-Fluorobiphenyl	106		43 - 145				01/31/20 16:48	02/03/20 14:37	1
2-Fluorophenol	102		31 - 166				01/31/20 16:48	02/03/20 14:37	1
Nitrobenzene-d5	103		37 - 147				01/31/20 16:48	02/03/20 14:37	1
Phenol-d5	81		30 - 153				01/31/20 16:48	02/03/20 14:37	1
Terphenyl-d14	133		42 - 157				01/31/20 16:48	02/03/20 14:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.1	0.22	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Arsenic	8.5		0.57	0.20	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Barium	60	B	0.57	0.065	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Beryllium	1.0		0.23	0.054	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Boron	17		2.9	0.27	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Cadmium	0.24	B	0.11	0.021	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Calcium	52000	B	110	19	mg/Kg	☼	01/30/20 07:14	01/31/20 11:53	10
Chromium	22		0.57	0.28	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Cobalt	21		0.29	0.075	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Copper	25		0.57	0.16	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Iron	22000	B	11	6.0	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Lead	17		0.29	0.13	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Magnesium	21000		5.7	2.8	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Manganese	520	B	0.57	0.083	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Nickel	48		0.57	0.17	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Potassium	3700		29	10	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Silver	3.0		0.29	0.074	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Sodium	400		57	8.5	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Thallium	0.38	J	0.57	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Vanadium	29		0.29	0.068	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1
Zinc	65	B	1.1	0.50	mg/Kg	☼	01/30/20 07:14	01/30/20 20:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/06/20 14:35	02/07/20 10:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/06/20 14:35	02/07/20 10:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:19	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 10:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B09-2

Lab Sample ID: 500-176718-7

Date Collected: 01/22/20 09:45

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 81.1

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		02/06/20 14:35	02/07/20 10:19	1
Manganese	0.27		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.062		0.050	0.010	mg/L		02/05/20 15:33	02/06/20 12:19	1
Barium	0.43	J	0.50	0.050	mg/L		02/05/20 15:33	02/06/20 12:19	1
Beryllium	0.0072		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 12:19	1
Boron	0.20		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 12:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 12:19	1
Calcium	53		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:19	1
Chromium	0.14		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:19	1
Cobalt	0.032		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:19	1
Iron	140		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 12:19	1
Lead	0.075		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 12:19	1
Manganese	0.50		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:19	1
Nickel	0.15		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:19	1
Potassium	32		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 12:19	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:19	1
Zinc	0.30	J	0.50	0.020	mg/L		02/05/20 15:33	02/06/20 12:19	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		02/06/20 14:35	02/07/20 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/05/20 15:33	02/06/20 12:38	1
Thallium	0.0030		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00029		0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0062	mg/Kg	☼	02/07/20 14:15	02/10/20 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.30	mg/Kg	☼	02/03/20 13:00	02/03/20 15:58	1
pH	8.4		0.2	0.2	SU			01/29/20 20:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B10-1

Lab Sample ID: 500-176718-8

Date Collected: 01/22/20 10:00

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/22/20 17:10	02/02/20 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/22/20 17:10	02/02/20 13:15	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/22/20 17:10	02/02/20 13:15	1
Dibromofluoromethane	91		75 - 126	01/22/20 17:10	02/02/20 13:15	1
Toluene-d8 (Surr)	97		75 - 124	01/22/20 17:10	02/02/20 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B10-1

Lab Sample ID: 500-176718-8

Date Collected: 01/22/20 10:00

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B10-1

Lab Sample ID: 500-176718-8

Date Collected: 01/22/20 10:00

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/31/20 16:48	02/03/20 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		31 - 143				01/31/20 16:48	02/03/20 15:04	1
2-Fluorobiphenyl	106		43 - 145				01/31/20 16:48	02/03/20 15:04	1
2-Fluorophenol	104		31 - 166				01/31/20 16:48	02/03/20 15:04	1
Nitrobenzene-d5	105		37 - 147				01/31/20 16:48	02/03/20 15:04	1
Phenol-d5	76		30 - 153				01/31/20 16:48	02/03/20 15:04	1
Terphenyl-d14	127		42 - 157				01/31/20 16:48	02/03/20 15:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.2	0.23	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Arsenic	8.3		0.58	0.20	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Barium	53	B	0.58	0.066	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Beryllium	0.99		0.23	0.054	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Boron	17		2.9	0.27	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Cadmium	0.17	B	0.12	0.021	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Calcium	55000	B	120	20	mg/Kg	☼	01/30/20 07:14	01/31/20 11:58	10
Chromium	22		0.58	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Cobalt	14		0.29	0.076	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Copper	23		0.58	0.16	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Iron	20000	B	12	6.0	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Lead	14		0.29	0.13	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Magnesium	22000		5.8	2.9	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Manganese	370	B	0.58	0.084	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Nickel	38		0.58	0.17	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Potassium	3500		29	10	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Selenium	0.39	J	0.58	0.34	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Silver	3.0		0.29	0.075	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Sodium	170		58	8.6	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Vanadium	28		0.29	0.068	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	1
Zinc	63	B	1.2	0.51	mg/Kg	☼	01/30/20 07:14	01/30/20 20:44	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		02/06/20 14:35	02/07/20 10:23	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 10:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/06/20 14:35	02/07/20 10:23	1
Manganese	0.29		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B10-1

Lab Sample ID: 500-176718-8

Date Collected: 01/22/20 10:00

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L		02/05/20 15:33	02/06/20 12:22	1
Barium	0.28	J	0.50	0.050	mg/L		02/05/20 15:33	02/06/20 12:22	1
Beryllium	0.0042		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 12:22	1
Boron	0.16		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 12:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 12:22	1
Calcium	42		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:22	1
Chromium	0.085		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:22	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:22	1
Iron	78		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 12:22	1
Lead	0.033		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 12:22	1
Manganese	0.32		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:22	1
Nickel	0.088		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:22	1
Potassium	19		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 12:22	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:22	1
Zinc	0.16	J	0.50	0.020	mg/L		02/05/20 15:33	02/06/20 12:22	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		02/05/20 15:33	02/06/20 12:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0063	mg/Kg	☼	02/07/20 14:15	02/10/20 08:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	02/03/20 13:00	02/03/20 15:59	1
pH	8.8		0.2	0.2	SU			01/29/20 13:27	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B10-2

Lab Sample ID: 500-176718-9

Date Collected: 01/22/20 10:05

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Acetone	<0.022		0.022	0.0095	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Bromomethane	<0.0054		0.0054	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Trichloroethene	<0.0022		0.0022	0.00073	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	01/22/20 17:10	02/02/20 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	01/22/20 17:10	02/02/20 13:41	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/22/20 17:10	02/02/20 13:41	1
Dibromofluoromethane	92		75 - 126	01/22/20 17:10	02/02/20 13:41	1
Toluene-d8 (Surr)	94		75 - 124	01/22/20 17:10	02/02/20 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B10-2

Lab Sample ID: 500-176718-9

Date Collected: 01/22/20 10:05

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2-Methylnaphthalene	<0.081		0.081	0.0073	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Benzo[a]anthracene	0.0097	J	0.040	0.0054	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Benzo[a]pyrene	0.011	J	0.040	0.0077	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Benzo[b]fluoranthene	0.016	J	0.040	0.0086	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Chrysene	0.013	J	0.040	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Fluoranthene	0.046		0.040	0.0074	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B10-2

Lab Sample ID: 500-176718-9

Date Collected: 01/22/20 10:05

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Phenanthrene	0.0076	J	0.040	0.0056	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Pyrene	0.017	J	0.040	0.0079	mg/Kg	☼	01/31/20 16:48	02/03/20 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		31 - 143				01/31/20 16:48	02/03/20 15:32	1
2-Fluorobiphenyl	99		43 - 145				01/31/20 16:48	02/03/20 15:32	1
2-Fluorophenol	97		31 - 166				01/31/20 16:48	02/03/20 15:32	1
Nitrobenzene-d5	96		37 - 147				01/31/20 16:48	02/03/20 15:32	1
Phenol-d5	77		30 - 153				01/31/20 16:48	02/03/20 15:32	1
Terphenyl-d14	130		42 - 157				01/31/20 16:48	02/03/20 15:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.1	0.22	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Arsenic	8.5		0.55	0.19	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Barium	48	B	0.55	0.063	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Beryllium	0.98		0.22	0.052	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Boron	17		2.8	0.26	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Cadmium	0.21	B	0.11	0.020	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Calcium	51000	B	110	19	mg/Kg	☼	01/30/20 07:14	01/31/20 12:02	10
Chromium	21		0.55	0.27	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Cobalt	18		0.28	0.073	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Copper	24		0.55	0.16	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Iron	21000	B	11	5.8	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Lead	16		0.28	0.13	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Magnesium	21000		5.5	2.8	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Manganese	460	B	0.55	0.080	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Nickel	44		0.55	0.16	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Potassium	3400		28	9.8	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Selenium	0.34	J	0.55	0.33	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Silver	2.9		0.28	0.072	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Sodium	160		55	8.2	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Thallium	0.36	J	0.55	0.28	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Vanadium	26		0.28	0.065	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1
Zinc	67	B	1.1	0.49	mg/Kg	☼	01/30/20 07:14	01/30/20 20:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/06/20 14:35	02/07/20 10:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/06/20 14:35	02/07/20 10:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:28	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 10:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

Client Sample ID: 2955V-36-B10-2

Lab Sample ID: 500-176718-9

Date Collected: 01/22/20 10:05

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 83.1

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		02/06/20 14:35	02/07/20 10:28	1
Manganese	0.43		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:28	1
Nickel	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.055		0.050	0.010	mg/L		02/05/20 15:33	02/06/20 12:26	1
Barium	0.41	J	0.50	0.050	mg/L		02/05/20 15:33	02/06/20 12:26	1
Beryllium	0.0065		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 12:26	1
Boron	0.20		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 12:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 12:26	1
Calcium	51		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:26	1
Chromium	0.12		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:26	1
Cobalt	0.029		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:26	1
Iron	120		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 12:26	1
Lead	0.055		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 12:26	1
Manganese	0.48		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:26	1
Nickel	0.14		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:26	1
Potassium	30		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 12:26	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:26	1
Zinc	0.27	J	0.50	0.020	mg/L		02/05/20 15:33	02/06/20 12:26	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		02/06/20 14:35	02/07/20 13:08	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		02/05/20 15:33	02/06/20 12:42	1
Thallium	0.0031		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0065	mg/Kg	☼	02/07/20 14:15	02/10/20 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.26	mg/Kg	☼	02/03/20 13:00	02/03/20 15:59	1
pH	8.4		0.2	0.2	SU			01/29/20 13:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176718-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance 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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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


500-176718

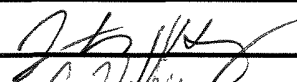
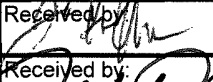
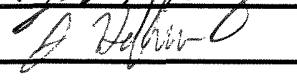

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>ACT-33A</u> Project No.: <u>PTB/WO-184-006/35A</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>JOSHUA HEX</u>	COC No.: <u>1</u> of <u>2</u> Lab Job No.: Sample Temp: <u>4.0, 4.1 48 ft.</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.
*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES															
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	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	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2955V-36-B07-1	1-22	0900	S	X	X					X	X	X	X	X		 500-176718 COC
2	2955V-36-B07-1DUP		0905														
3	2955V-36-B07-2		0910														
4	2955V-36-B08-1		0920														
5	2955V-36-B08-2		0925														
6	2955V-36-B09-1		0940														
7	2955V-36-B09-2		0945														
8	2955V-36-B10-1		1000														
9	2955V-36-B10-2		1005														
10	2955V-36-B11-1		1020														
11	2955V-36-B11-2		1025														
12	TRIP BLANK #4			W	X												

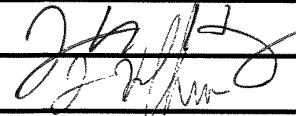
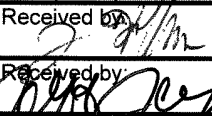
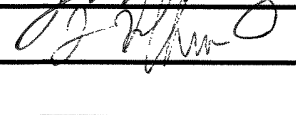
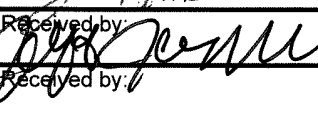
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Relinquished by: 	Date/Time: <u>1-22-20 1605</u>	Received by: 	Date/Time: <u>1-22-20 1605</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

CHAIN OF CUSTODY RECORD

500-176718

Client Contact	Laboratory	Project Name: <u>AET-33A</u>	COC No.: <u>2</u> of <u>2</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: 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>PTB/WO: 184-006/33A</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: 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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.		Analyses	Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES													Comments	
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
13	2955V-36-B12-1	1-22	1040	S	X	X					X	X	X	X	X				
14	2955V-36-B12-1 DUP	↓	1045	↓	↓	↓					↓	↓	↓	↓	↓				
15	2955V-36-B12-2	↓	1050	↓	↓	↓					↓	↓	↓	↓	↓				

Relinquished by: 	Date/Time: <u>1-22-2020 1520</u>	Received by: 	Date/Time: <u>1-22-20 1520</u>
Relinquished by: 	Date/Time: <u>1-22-20 1615</u>	Received by: 	Date/Time: <u>1-22-20/1615</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176795-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/11/2020 3:48:18 PM

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

LINKS

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B14-1

Lab Sample ID: 500-176795-1

Date Collected: 01/23/20 09:15

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00071	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
1,2-Dichloropropane	<0.0016		0.0016	0.00043	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Acetone	<0.016		0.016	0.0072	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Bromodichloromethane	<0.0016		0.0016	0.00034	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Chloromethane	<0.0041 *		0.0041	0.0017	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Toluene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/24/20 17:25	02/05/20 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	01/24/20 17:25	02/05/20 15:03	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/24/20 17:25	02/05/20 15:03	1
Dibromofluoromethane	95		75 - 126	01/24/20 17:25	02/05/20 15:03	1
Toluene-d8 (Surr)	95		75 - 124	01/24/20 17:25	02/05/20 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B14-1

Lab Sample ID: 500-176795-1

Date Collected: 01/23/20 09:15

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Benzo[b]fluoranthene	0.0090	J	0.040	0.0087	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Chrysene	0.013	J	0.040	0.011	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B14-1

Lab Sample ID: 500-176795-1

Date Collected: 01/23/20 09:15

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.047	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Phenanthrene	0.0068	J	0.040	0.0056	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/04/20 18:12	02/05/20 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	105		31 - 143				02/04/20 18:12	02/05/20 20:59	1
2-Fluorobiphenyl	89		43 - 145				02/04/20 18:12	02/05/20 20:59	1
2-Fluorophenol	92		31 - 166				02/04/20 18:12	02/05/20 20:59	1
Nitrobenzene-d5	86		37 - 147				02/04/20 18:12	02/05/20 20:59	1
Phenol-d5	86		30 - 153				02/04/20 18:12	02/05/20 20:59	1
Terphenyl-d14	127		42 - 157				02/04/20 18:12	02/05/20 20:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.94	J	1.1	0.22	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Arsenic	6.3		0.56	0.19	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Barium	60		0.56	0.064	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Beryllium	0.97		0.22	0.052	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Boron	15		2.8	0.26	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Cadmium	0.16		0.11	0.020	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Calcium	60000		110	19	mg/Kg	☼	01/31/20 16:39	02/04/20 11:28	10
Chromium	22		0.56	0.28	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Cobalt	14		0.28	0.074	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Copper	20		0.56	0.16	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Iron	21000		11	5.8	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Lead	14		0.28	0.13	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Magnesium	23000		5.6	2.8	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Manganese	340		0.56	0.081	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Nickel	36		0.56	0.16	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Potassium	3100		28	9.9	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Selenium	0.53	J	0.56	0.33	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Silver	2.8		0.28	0.072	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Sodium	2000		56	8.3	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Vanadium	26		0.28	0.066	mg/Kg	☼	01/31/20 16:39	02/03/20 20:40	1
Zinc	60		1.1	0.49	mg/Kg	☼	01/31/20 16:39	02/04/20 11:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/20 06:31	02/10/20 20:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/20 06:31	02/10/20 20:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:26	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 20:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B14-1

Lab Sample ID: 500-176795-1

Date Collected: 01/23/20 09:15

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0088		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 20:26	1
Manganese	2.8		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:26	1
Nickel	0.020	J	0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.085		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 17:16	1
Barium	0.62		0.50	0.050	mg/L		02/08/20 16:41	02/10/20 17:16	1
Beryllium	0.0090		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 17:16	1
Boron	0.22		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 17:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 17:16	1
Calcium	100		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:16	1
Chromium	0.19		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:16	1
Cobalt	0.060		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:16	1
Iron	200		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 17:16	1
Lead	0.15		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 17:16	1
Manganese	0.88		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:16	1
Nickel	0.25		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:16	1
Potassium	33		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 17:16	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:16	1
Zinc	0.51	B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 17:16	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		02/10/20 06:31	02/11/20 13:22	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		02/08/20 16:41	02/11/20 11:55	1
Thallium	0.0027		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 22:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00046		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 11:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.020	0.0067	mg/Kg	☼	02/10/20 15:05	02/11/20 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.43		0.43	0.22	mg/Kg	☼	02/06/20 10:00	02/06/20 14:40	1
pH	8.5		0.2	0.2	SU			01/30/20 14:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B14-2

Lab Sample ID: 500-176795-2

Date Collected: 01/23/20 09:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Chloromethane	<0.0043 *		0.0043	0.0017	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/24/20 17:25	02/05/20 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	01/24/20 17:25	02/05/20 11:38	1
4-Bromofluorobenzene (Surr)	105		75 - 131	01/24/20 17:25	02/05/20 11:38	1
Dibromofluoromethane	95		75 - 126	01/24/20 17:25	02/05/20 11:38	1
Toluene-d8 (Surr)	93		75 - 124	01/24/20 17:25	02/05/20 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B14-2

Lab Sample ID: 500-176795-2

Date Collected: 01/23/20 09:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Fluoranthene	0.0091	J	0.041	0.0076	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B14-2

Lab Sample ID: 500-176795-2

Date Collected: 01/23/20 09:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
N-Nitrosodiphenylamine	<0.21 *		0.21	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1
Pyrene	0.0082	J	0.041	0.0082	mg/Kg	☼	02/04/20 18:12	02/05/20 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	114		31 - 143	02/04/20 18:12	02/05/20 21:24	1
2-Fluorobiphenyl	96		43 - 145	02/04/20 18:12	02/05/20 21:24	1
2-Fluorophenol	102		31 - 166	02/04/20 18:12	02/05/20 21:24	1
Nitrobenzene-d5	95		37 - 147	02/04/20 18:12	02/05/20 21:24	1
Phenol-d5	91		30 - 153	02/04/20 18:12	02/05/20 21:24	1
Terphenyl-d14	134		42 - 157	02/04/20 18:12	02/05/20 21:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.1	0.22	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Arsenic	7.5		0.57	0.19	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Barium	65		0.57	0.065	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Beryllium	1.2		0.23	0.053	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Boron	15		2.9	0.27	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Cadmium	0.13		0.11	0.021	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Calcium	24000		11	1.9	mg/Kg	☼	01/31/20 16:39	02/04/20 11:40	1
Chromium	27		0.57	0.28	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Cobalt	16		0.29	0.075	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Copper	23		0.57	0.16	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Iron	25000		11	5.9	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Lead	15		0.29	0.13	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Magnesium	16000		5.7	2.8	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Manganese	440		0.57	0.083	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Nickel	43		0.57	0.17	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Potassium	3300		29	10	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Selenium	0.53	J	0.57	0.34	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Silver	3.2		0.29	0.074	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Sodium	2200		57	8.4	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Vanadium	34		0.29	0.067	mg/Kg	☼	01/31/20 16:39	02/03/20 20:44	1
Zinc	64		1.1	0.50	mg/Kg	☼	01/31/20 16:39	02/04/20 11:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/20 06:31	02/10/20 20:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/20 06:31	02/10/20 20:31	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:31	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 20:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B14-2

Lab Sample ID: 500-176795-2

Date Collected: 01/23/20 09:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.3

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		02/10/20 06:31	02/10/20 20:31	1
Manganese	2.7		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:31	1
Nickel	0.022	J	0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.077		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 17:19	1
Barium	0.68		0.50	0.050	mg/L		02/08/20 16:41	02/10/20 17:19	1
Beryllium	0.0095		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 17:19	1
Boron	0.22		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 17:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 17:19	1
Calcium	71		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:19	1
Chromium	0.20		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:19	1
Cobalt	0.051		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:19	1
Iron	190		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 17:19	1
Lead	0.12		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 17:19	1
Manganese	0.77		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:19	1
Nickel	0.23		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:19	1
Potassium	34		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 17:19	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:19	1
Zinc	0.71	B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 17:19	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		02/10/20 06:31	02/11/20 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/20 16:41	02/11/20 11:57	1
Thallium	0.0027		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00041		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 11:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.0065	mg/Kg	☼	02/10/20 15:05	02/11/20 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.25	mg/Kg	☼	02/06/20 10:00	02/06/20 14:40	1
pH	8.3		0.2	0.2	SU			01/30/20 14:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B13-1

Lab Sample ID: 500-176795-3

Date Collected: 01/23/20 09:40

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Chloromethane	<0.0044 *		0.0044	0.0018	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	01/24/20 17:25	02/05/20 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	01/24/20 17:25	02/05/20 12:04	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/24/20 17:25	02/05/20 12:04	1
Dibromofluoromethane	91		75 - 126	01/24/20 17:25	02/05/20 12:04	1
Toluene-d8 (Surr)	99		75 - 124	01/24/20 17:25	02/05/20 12:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B13-1

Lab Sample ID: 500-176795-3

Date Collected: 01/23/20 09:40

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B13-1

Lab Sample ID: 500-176795-3

Date Collected: 01/23/20 09:40

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/04/20 18:12	02/05/20 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	122		31 - 143				02/04/20 18:12	02/05/20 21:48	1
2-Fluorobiphenyl	102		43 - 145				02/04/20 18:12	02/05/20 21:48	1
2-Fluorophenol	116		31 - 166				02/04/20 18:12	02/05/20 21:48	1
Nitrobenzene-d5	99		37 - 147				02/04/20 18:12	02/05/20 21:48	1
Phenol-d5	106		30 - 153				02/04/20 18:12	02/05/20 21:48	1
Terphenyl-d14	138		42 - 157				02/04/20 18:12	02/05/20 21:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.98	J	1.1	0.22	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Arsenic	6.9		0.57	0.20	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Barium	53		0.57	0.065	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Beryllium	1.1		0.23	0.053	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Boron	15		2.9	0.27	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Cadmium	0.15		0.11	0.021	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Calcium	54000		110	19	mg/Kg	☼	01/31/20 16:39	02/04/20 11:48	10
Chromium	23		0.57	0.28	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Cobalt	12		0.29	0.075	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Copper	22		0.57	0.16	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Iron	23000		11	5.9	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Lead	17		0.29	0.13	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Magnesium	23000		5.7	2.8	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Manganese	300		0.57	0.083	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Nickel	35		0.57	0.17	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Potassium	3200		29	10	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Selenium	0.38	J	0.57	0.34	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Silver	2.7		0.29	0.074	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Sodium	1200		57	8.4	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Vanadium	28		0.29	0.067	mg/Kg	☼	01/31/20 16:39	02/03/20 20:48	1
Zinc	63		1.1	0.50	mg/Kg	☼	01/31/20 16:39	02/04/20 11:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/20 06:31	02/10/20 20:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/20 06:31	02/10/20 20:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:36	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 20:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B13-1

Lab Sample ID: 500-176795-3

Date Collected: 01/23/20 09:40

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.9

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		02/10/20 06:31	02/10/20 20:36	1
Manganese	2.6		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:36	1
Nickel	0.027		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.082		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 17:23	1
Barium	0.61		0.50	0.050	mg/L		02/08/20 16:41	02/10/20 17:23	1
Beryllium	0.0091		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 17:23	1
Boron	0.21		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 17:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 17:23	1
Calcium	75		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:23	1
Chromium	0.19		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:23	1
Cobalt	0.050		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:23	1
Iron	190		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 17:23	1
Lead	0.12		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 17:23	1
Manganese	0.77		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:23	1
Nickel	0.22		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:23	1
Potassium	33		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 17:23	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:23	1
Zinc	0.45	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 17:23	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		02/10/20 06:31	02/11/20 13:26	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		02/08/20 16:41	02/11/20 11:59	1
Thallium	0.0029		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 22:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00042		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 11:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.020	0.0065	mg/Kg	☼	02/10/20 15:05	02/11/20 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.25	mg/Kg	☼	02/06/20 10:00	02/06/20 14:42	1
pH	8.6		0.2	0.2	SU			01/30/20 14:52	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B13-2

Lab Sample ID: 500-176795-4

Date Collected: 01/23/20 09:45

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Chloromethane	<0.0046 *		0.0046	0.0018	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	01/24/20 17:25	02/05/20 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	01/24/20 17:25	02/05/20 12:29	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/24/20 17:25	02/05/20 12:29	1
Dibromofluoromethane	91		75 - 126	01/24/20 17:25	02/05/20 12:29	1
Toluene-d8 (Surr)	99		75 - 124	01/24/20 17:25	02/05/20 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B13-2

Lab Sample ID: 500-176795-4

Date Collected: 01/23/20 09:45

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Benzo[a]anthracene	0.011	J	0.041	0.0055	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Benzo[a]pyrene	0.011	J	0.041	0.0079	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Benzo[b]fluoranthene	0.017	J	0.041	0.0089	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Chrysene	0.013	J	0.041	0.011	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Fluoranthene	0.020	J	0.041	0.0076	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B13-2

Lab Sample ID: 500-176795-4

Date Collected: 01/23/20 09:45

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
N-Nitrosodiphenylamine	<0.21 *		0.21	0.048	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Phenanthrene	0.0097	J	0.041	0.0057	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Pyrene	0.017	J	0.041	0.0081	mg/Kg	☼	02/04/20 18:12	02/05/20 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	112		31 - 143				02/04/20 18:12	02/05/20 22:13	1
2-Fluorobiphenyl	89		43 - 145				02/04/20 18:12	02/05/20 22:13	1
2-Fluorophenol	83		31 - 166				02/04/20 18:12	02/05/20 22:13	1
Nitrobenzene-d5	82		37 - 147				02/04/20 18:12	02/05/20 22:13	1
Phenol-d5	90		30 - 153				02/04/20 18:12	02/05/20 22:13	1
Terphenyl-d14	128		42 - 157				02/04/20 18:12	02/05/20 22:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.23	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Arsenic	10		0.59	0.20	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Barium	69		0.59	0.067	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Beryllium	1.2		0.24	0.055	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Boron	13		2.9	0.27	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Cadmium	0.19		0.12	0.021	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Calcium	16000		12	2.0	mg/Kg	☼	01/31/20 16:39	02/04/20 11:52	1
Chromium	25		0.59	0.29	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Cobalt	19		0.29	0.077	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Copper	29		0.59	0.17	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Iron	27000		12	6.1	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Lead	27		0.29	0.14	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Magnesium	11000		5.9	2.9	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Manganese	530		0.59	0.086	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Nickel	44		0.59	0.17	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Potassium	2700		29	10	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Selenium	0.45	J	0.59	0.35	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Silver	2.8		0.29	0.076	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Sodium	1300		59	8.7	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Vanadium	33		0.29	0.070	mg/Kg	☼	01/31/20 16:39	02/03/20 20:52	1
Zinc	75		1.2	0.52	mg/Kg	☼	01/31/20 16:39	02/04/20 11:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/20 06:31	02/10/20 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/20 06:31	02/10/20 19:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:49	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 19:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176795-1

Client Sample ID: 2955V-36-B13-2

Lab Sample ID: 500-176795-4

Date Collected: 01/23/20 09:45

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.3

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		02/10/20 06:31	02/10/20 19:49	1
Manganese	0.38		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:49	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.070		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 17:27	1
Barium	0.52		0.50	0.050	mg/L		02/08/20 16:41	02/10/20 17:27	1
Beryllium	0.0079		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 17:27	1
Boron	0.19		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 17:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 17:27	1
Calcium	43		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:27	1
Chromium	0.15		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:27	1
Cobalt	0.040		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:27	1
Iron	170		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 17:27	1
Lead	0.11		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 17:27	1
Manganese	0.63		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:27	1
Nickel	0.19		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:27	1
Potassium	25		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 17:27	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:27	1
Zinc	0.80	B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 17:27	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		02/10/20 06:31	02/11/20 13:06	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		02/08/20 16:41	02/11/20 12:01	1
Thallium	0.0047		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00039		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 11:17	1


Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0065	mg/Kg	☼	02/10/20 15:05	02/11/20 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.23	mg/Kg	☼	02/06/20 10:00	02/06/20 14:42	1
pH	8.6		0.2	0.2	SU			01/30/20 14:55	1

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	 500-176795 COC	Laboratory	Project Name: <u>AE7-033A</u>	COC No.: <u>1</u> of <u>1</u>
		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>PTB/CO: 184-coc/33A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD Other <u>Shawn Fritsche</u> Sampler:	Lab Job No.: <u>500-176795</u> Sample Temp: <u>29</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.
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

					ANALYSES													
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization		
1	2955U-36-B14-1	1/23	0915	S	X	X					X	X	X	X	X			
2	2955U-36-B14-2	1/23	0930	S	*	X					X	X	X	X	X			
3	2955U-36-B13-1	1/23	0940	S	X	X					X	X	X	X	X			
4	2955U-36-B13-2	1/23	0945	S	X	X					X	X	X	X	X			

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

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/23 1350</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/23/20 1350</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1025 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79007 Longitude: - 87.88253
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 125

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-37-B01, 2955V-37-B02 AND 2955V-37-B03 WERE SAMPLED ADJACENT TO SITE 2955V-37. SEE TABLE 3r AND FIGURE 6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176791-1.

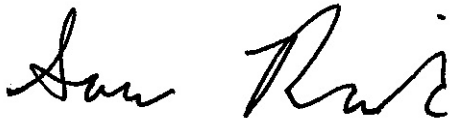
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-37

Hallowell and James Funeral Home

Sample ID	2955V-37-B01	2955V-37-B02	2955V-37-B03	Maximum Allowable Concentration				
Sample Depth (ft)	0-2	0-2	0-2	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	1/23/2020	1/23/2020	1/23/2020					
PID	0	0	0					
Sample pH	8.3	8.1	8.4					
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176791-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/11/2020 3:13:22 PM

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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B01

Lab Sample ID: 500-176791-1

Date Collected: 01/23/20 11:10

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Acetone	0.0073	J	0.016	0.0070	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Chloromethane	<0.0040	*	0.0040	0.0016	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/24/20 17:25	02/04/20 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/24/20 17:25	02/04/20 15:39	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/24/20 17:25	02/04/20 15:39	1
Dibromofluoromethane	97		75 - 126	01/24/20 17:25	02/04/20 15:39	1
Toluene-d8 (Surr)	95		75 - 124	01/24/20 17:25	02/04/20 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B01

Lab Sample ID: 500-176791-1

Date Collected: 01/23/20 11:10

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Di-n-butyl phthalate	0.082	J	0.21	0.063	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Di-n-octyl phthalate	0.17	J	0.21	0.067	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Fluoranthene	0.016	J	0.041	0.0076	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B01

Lab Sample ID: 500-176791-1

Date Collected: 01/23/20 11:10

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Pyrene	0.031	J	0.041	0.0082	mg/Kg	☼	02/04/20 16:31	02/05/20 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143				02/04/20 16:31	02/05/20 20:30	1
2-Fluorobiphenyl	93		43 - 145				02/04/20 16:31	02/05/20 20:30	1
2-Fluorophenol	104		31 - 166				02/04/20 16:31	02/05/20 20:30	1
Nitrobenzene-d5	108		37 - 147				02/04/20 16:31	02/05/20 20:30	1
Phenol-d5	94		30 - 153				02/04/20 16:31	02/05/20 20:30	1
Terphenyl-d14	121		42 - 157				02/04/20 16:31	02/05/20 20:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.2	0.23	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Arsenic	8.4		0.59	0.20	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Barium	92		0.59	0.067	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Beryllium	1.2		0.24	0.055	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Boron	18		2.9	0.27	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Cadmium	0.12	B	0.12	0.021	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Calcium	17000	B	12	2.0	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Chromium	25		0.59	0.29	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Cobalt	13		0.29	0.077	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Copper	28		0.59	0.16	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Iron	23000		12	6.1	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Lead	15		0.29	0.14	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Magnesium	13000		5.9	2.9	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Manganese	250		0.59	0.085	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Nickel	42		0.59	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Potassium	3600		29	10	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Silver	4.2		0.29	0.076	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Sodium	220		59	8.7	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Vanadium	34		0.29	0.069	mg/Kg	☼	01/31/20 06:48	02/01/20 01:53	1
Zinc	64		1.2	0.52	mg/Kg	☼	01/31/20 06:48	02/03/20 19:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 18:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 18:39	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B01

Lab Sample ID: 500-176791-1

Date Collected: 01/23/20 11:10

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:16	1
Barium	0.081	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:16	1
Boron	0.055	J	0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:16	1
Calcium	11		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:16	1
Chromium	0.018	J	0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:16	1
Iron	16		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:16	1
Lead	0.010		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:16	1
Manganese	0.047		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:16	1
Nickel	0.017	J	0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:16	1
Potassium	4.2		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:16	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:16	1
Zinc	0.080	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:16	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		02/08/20 16:41	02/11/20 11:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 21:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0064	mg/Kg	☼	02/10/20 15:05	02/11/20 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.31	mg/Kg	☼	02/05/20 09:15	02/05/20 13:37	1
pH	8.3		0.2	0.2	SU			01/30/20 14:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B02

Lab Sample ID: 500-176791-2

Date Collected: 01/23/20 11:00

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Chloroethane	<0.0046 *		0.0046	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Chloromethane	<0.0046 *		0.0046	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	01/24/20 17:25	02/04/20 16:05	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/24/20 17:25	02/04/20 16:05	1
Dibromofluoromethane	95		75 - 126	01/24/20 17:25	02/04/20 16:05	1
Toluene-d8 (Surr)	96		75 - 124	01/24/20 17:25	02/04/20 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B02

Lab Sample ID: 500-176791-2

Date Collected: 01/23/20 11:00

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Anthracene	0.044		0.040	0.0068	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Di-n-butyl phthalate	0.079	J	0.20	0.062	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Di-n-octyl phthalate	0.16	J	0.20	0.066	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Fluoranthene	0.015	J	0.040	0.0075	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B02

Lab Sample ID: 500-176791-2

Date Collected: 01/23/20 11:00

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Phenanthrene	0.011	J	0.040	0.0057	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Pyrene	0.031	J	0.040	0.0081	mg/Kg	☼	02/04/20 16:31	02/05/20 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		31 - 143				02/04/20 16:31	02/05/20 21:00	1
2-Fluorobiphenyl	89		43 - 145				02/04/20 16:31	02/05/20 21:00	1
2-Fluorophenol	100		31 - 166				02/04/20 16:31	02/05/20 21:00	1
Nitrobenzene-d5	98		37 - 147				02/04/20 16:31	02/05/20 21:00	1
Phenol-d5	88		30 - 153				02/04/20 16:31	02/05/20 21:00	1
Terphenyl-d14	121		42 - 157				02/04/20 16:31	02/05/20 21:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.1	0.22	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Arsenic	7.3		0.57	0.19	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Barium	65		0.57	0.065	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Beryllium	1.0		0.23	0.053	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Boron	19		2.8	0.26	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Cadmium	0.16	B	0.11	0.020	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Calcium	66000	B	110	19	mg/Kg	☼	01/31/20 06:48	02/03/20 19:24	10
Chromium	22		0.57	0.28	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Cobalt	14		0.28	0.074	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Copper	21		0.57	0.16	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Iron	19000		11	5.9	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Lead	13		0.28	0.13	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Magnesium	20000		5.7	2.8	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Manganese	300		0.57	0.082	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Nickel	37		0.57	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Potassium	3600		28	10	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Silver	3.9		0.28	0.073	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Sodium	180		57	8.4	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Vanadium	30		0.28	0.067	mg/Kg	☼	01/31/20 06:48	02/01/20 01:57	1
Zinc	55		1.1	0.50	mg/Kg	☼	01/31/20 06:48	02/03/20 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		02/10/20 06:31	02/10/20 18:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B02

Lab Sample ID: 500-176791-2

Date Collected: 01/23/20 11:00

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:20	1
Barium	0.052	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:20	1
Boron	<0.10		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:20	1
Calcium	8.7		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:20	1
Chromium	0.012	J	0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:20	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:20	1
Iron	8.9		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:20	1
Manganese	0.032		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:20	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:20	1
Potassium	3.1		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:20	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:20	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:20	1
Zinc	0.050	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:20	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		02/08/20 16:41	02/11/20 11:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0060	mg/Kg	☼	02/10/20 15:05	02/11/20 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	02/05/20 09:15	02/05/20 13:37	1
pH	8.1		0.2	0.2	SU			01/30/20 14:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B03

Lab Sample ID: 500-176791-3

Date Collected: 01/23/20 10:50

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Chloroethane	<0.0049 *		0.0049	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Chloromethane	<0.0049 *		0.0049	0.0020	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	01/24/20 17:25	02/04/20 16:30	1
4-Bromofluorobenzene (Surr)	107		75 - 131	01/24/20 17:25	02/04/20 16:30	1
Dibromofluoromethane	95		75 - 126	01/24/20 17:25	02/04/20 16:30	1
Toluene-d8 (Surr)	96		75 - 124	01/24/20 17:25	02/04/20 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B03

Lab Sample ID: 500-176791-3

Date Collected: 01/23/20 10:50

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Anthracene	0.046		0.040	0.0067	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Benzo[a]anthracene	0.026 J		0.040	0.0054	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Benzo[a]pyrene	0.042		0.040	0.0077	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Benzo[b]fluoranthene	0.045		0.040	0.0086	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Benzo[g,h,i]perylene	0.023 J		0.040	0.013	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Benzo[k]fluoranthene	0.017 J		0.040	0.012	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Chrysene	0.044		0.040	0.011	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Di-n-butyl phthalate	0.077 J		0.20	0.061	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Di-n-octyl phthalate	0.16 J		0.20	0.065	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Fluoranthene	0.088		0.040	0.0074	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B03

Lab Sample ID: 500-176791-3

Date Collected: 01/23/20 10:50

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.019	J	0.040	0.010	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Phenanthrene	0.033	J	0.040	0.0056	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Pyrene	0.067		0.040	0.0079	mg/Kg	☼	02/04/20 16:31	02/05/20 21:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143				02/04/20 16:31	02/05/20 21:30	1
2-Fluorobiphenyl	97		43 - 145				02/04/20 16:31	02/05/20 21:30	1
2-Fluorophenol	109		31 - 166				02/04/20 16:31	02/05/20 21:30	1
Nitrobenzene-d5	112		37 - 147				02/04/20 16:31	02/05/20 21:30	1
Phenol-d5	101		30 - 153				02/04/20 16:31	02/05/20 21:30	1
Terphenyl-d14	129		42 - 157				02/04/20 16:31	02/05/20 21:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.2	0.24	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Arsenic	8.8		0.61	0.21	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Barium	77		0.61	0.069	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Beryllium	1.1		0.24	0.057	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Boron	21		3.0	0.28	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Cadmium	0.28	B	0.12	0.022	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Calcium	56000	B	120	21	mg/Kg	☼	01/31/20 06:48	02/03/20 19:33	10
Chromium	24		0.61	0.30	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Cobalt	15		0.30	0.079	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Copper	25		0.61	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Iron	21000		12	6.3	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Lead	18		0.30	0.14	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Magnesium	20000		6.1	3.0	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Manganese	270		0.61	0.088	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Nickel	34		0.61	0.18	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Potassium	3800		30	11	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Silver	4.0		0.30	0.078	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Sodium	170		61	9.0	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Vanadium	35		0.30	0.071	mg/Kg	☼	01/31/20 06:48	02/01/20 02:02	1
Zinc	73		1.2	0.53	mg/Kg	☼	01/31/20 06:48	02/03/20 19:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 18:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 18:48	1
Manganese	0.081		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 18:48	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Client Sample ID: 2955V-37-B03

Lab Sample ID: 500-176791-3

Date Collected: 01/23/20 10:50

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.022	J	0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:24	1
Barium	0.29	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:24	1
Boron	0.10		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:24	1
Calcium	27		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:24	1
Chromium	0.073		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:24	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:24	1
Iron	62		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:24	1
Lead	0.039		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:24	1
Manganese	0.21		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:24	1
Nickel	0.063		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:24	1
Potassium	13		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:24	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:24	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:24	1
Zinc	0.26	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/20 16:41	02/11/20 11:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0066	mg/Kg	☼	02/10/20 15:05	02/11/20 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.26	mg/Kg	☼	02/05/20 09:15	02/05/20 13:38	1
pH	8.4		0.2	0.2	SU			01/30/20 14:22	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176791-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.


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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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					 500-176791 COC					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>AET-33A</u> Project No.: <u>PTB/WD-184-006/33A</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 <u>Shaun Fritsche</u> Sampler:					COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176791</u> Sample Temp.: <u>33</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.					ANALYSES									
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments							
1	2955V-37-1301	1/23	1110	S	X	X					X	X	X	X	X									
2	2955V-37-1302		1100	↓	↓	↓					↓	↓	↓	↓	↓									
3	2955V-37-1303		1050	↓	↓	↓					↓	↓	↓	↓	↓									
Relinquished by: <u>MW</u>					Date/Time: <u>1/23 1350</u>					Received by: <u>[Signature]</u>					Date/Time: <u>1/23/20 1350</u>									
Relinquished by:					Date/Time:					Received by:					Date/Time:									
Relinquished by:					Date/Time:					Received by:					Date/Time:									



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

1023 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79011 Longitude: - 87.88137
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 121

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-38-B01 AND 2955V-38-B02 WERE SAMPLED ADJACENT TO SITE 2955V-38. SEE TABLE 3s AND FIGURE 7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176793-1.

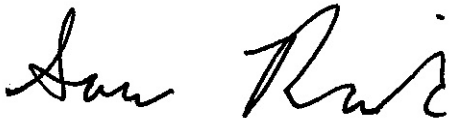
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

**ISGS Site 2955V-38
Commercial Building**

Sample ID	2955V-38-B01	2955V-38-B02	2955V-38-B02 DUP	Maximum Allowable Concentration				
Sample Depth (ft)	0-2	0-2	0-2	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	1/23/2020	1/23/2020	1/23/2020					
PID	0	0	0					
Sample pH	8.2	8.1	8.2					
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176793-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/11/2020 3:42:33 PM

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

LINKS

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results through
TotalAccess

Have a Question?



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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B01

Lab Sample ID: 500-176793-1

Date Collected: 01/23/20 10:40

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Chloroethane	<0.0044 *		0.0044	0.0013	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Chloromethane	<0.0044 *		0.0044	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	01/24/20 17:25	02/04/20 19:02	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/24/20 17:25	02/04/20 19:02	1
Dibromofluoromethane	94		75 - 126	01/24/20 17:25	02/04/20 19:02	1
Toluene-d8 (Surr)	98		75 - 124	01/24/20 17:25	02/04/20 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B01

Lab Sample ID: 500-176793-1

Date Collected: 01/23/20 10:40

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Anthracene	0.041		0.038	0.0064	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Benzo[a]anthracene	0.0081 J		0.038	0.0052	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Benzo[a]pyrene	0.014 J		0.038	0.0074	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Benzo[b]fluoranthene	0.017 J		0.038	0.0083	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Benzo[g,h,i]perylene	0.013 J		0.038	0.012	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Chrysene	0.017 J		0.038	0.010	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Di-n-butyl phthalate	0.073 J		0.19	0.058	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Fluoranthene	0.025 J		0.038	0.0071	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B01

Lab Sample ID: 500-176793-1

Date Collected: 01/23/20 10:40

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Phenanthrene	0.015	J	0.038	0.0053	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Pyrene	0.035	J	0.038	0.0076	mg/Kg	☼	02/04/20 16:31	02/05/20 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		31 - 143				02/04/20 16:31	02/05/20 22:00	1
2-Fluorobiphenyl	88		43 - 145				02/04/20 16:31	02/05/20 22:00	1
2-Fluorophenol	97		31 - 166				02/04/20 16:31	02/05/20 22:00	1
Nitrobenzene-d5	100		37 - 147				02/04/20 16:31	02/05/20 22:00	1
Phenol-d5	85		30 - 153				02/04/20 16:31	02/05/20 22:00	1
Terphenyl-d14	114		42 - 157				02/04/20 16:31	02/05/20 22:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.1	0.21	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Arsenic	7.5		0.55	0.19	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Barium	47		0.55	0.062	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Beryllium	0.89		0.22	0.051	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Boron	18		2.7	0.25	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Cadmium	0.19	B	0.11	0.020	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Calcium	58000	B	110	19	mg/Kg	☼	01/31/20 06:48	02/03/20 20:13	10
Chromium	19		0.55	0.27	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Cobalt	17		0.27	0.072	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Copper	26		0.55	0.15	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Iron	18000		11	5.7	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Lead	14		0.27	0.13	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Magnesium	20000		5.5	2.7	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Manganese	390		0.55	0.079	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Nickel	38		0.55	0.16	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Potassium	3500		27	9.7	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Silver	3.6		0.27	0.071	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Sodium	200		55	8.1	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Thallium	0.29	J	0.55	0.27	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Vanadium	26		0.27	0.065	mg/Kg	☼	01/31/20 06:48	02/01/20 02:26	1
Zinc	57		1.1	0.48	mg/Kg	☼	01/31/20 06:48	02/03/20 20:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/20 06:31	02/10/20 19:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/20 06:31	02/10/20 19:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:25	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 19:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B01

Lab Sample ID: 500-176793-1

Date Collected: 01/23/20 10:40

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.2

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		02/10/20 06:31	02/10/20 19:25	1
Manganese	0.31		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:25	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.057		0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:48	1
Barium	0.37	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:48	1
Beryllium	0.0060		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:48	1
Boron	0.15		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:48	1
Calcium	41		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:48	1
Chromium	0.12		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:48	1
Cobalt	0.029		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:48	1
Iron	120		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:48	1
Lead	0.087		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:48	1
Manganese	0.40		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:48	1
Nickel	0.13		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:48	1
Potassium	23		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:48	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:48	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:48	1
Zinc	0.42	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:48	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		02/10/20 06:31	02/11/20 12:52	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		02/08/20 16:41	02/11/20 11:45	1
Thallium	0.0029		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 22:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00029		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0064	mg/Kg	☼	02/10/20 15:05	02/11/20 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	☼	02/06/20 10:00	02/06/20 14:39	1
pH	8.2		0.2	0.2	SU			01/30/20 15:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B02

Lab Sample ID: 500-176793-2

Date Collected: 01/23/20 10:25

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Chloroethane	<0.0043 *		0.0043	0.0013	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Chloromethane	<0.0043 *		0.0043	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/24/20 17:25	02/04/20 19:27	1
4-Bromofluorobenzene (Surr)	103		75 - 131	01/24/20 17:25	02/04/20 19:27	1
Dibromofluoromethane	95		75 - 126	01/24/20 17:25	02/04/20 19:27	1
Toluene-d8 (Surr)	96		75 - 124	01/24/20 17:25	02/04/20 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B02

Lab Sample ID: 500-176793-2

Date Collected: 01/23/20 10:25

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Di-n-butyl phthalate	0.075	J	0.20	0.060	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B02

Lab Sample ID: 500-176793-2

Date Collected: 01/23/20 10:25

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Phenanthrene	0.010	J	0.039	0.0055	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/04/20 16:31	02/05/20 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		31 - 143				02/04/20 16:31	02/05/20 22:31	1
2-Fluorobiphenyl	94		43 - 145				02/04/20 16:31	02/05/20 22:31	1
2-Fluorophenol	100		31 - 166				02/04/20 16:31	02/05/20 22:31	1
Nitrobenzene-d5	106		37 - 147				02/04/20 16:31	02/05/20 22:31	1
Phenol-d5	91		30 - 153				02/04/20 16:31	02/05/20 22:31	1
Terphenyl-d14	123		42 - 157				02/04/20 16:31	02/05/20 22:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	1.2	0.23	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Arsenic	7.5		0.58	0.20	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Barium	68		0.58	0.066	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Beryllium	0.92		0.23	0.054	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Boron	19		2.9	0.27	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Cadmium	0.18	B	0.12	0.021	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Calcium	74000	B	120	20	mg/Kg	☼	01/31/20 06:48	02/03/20 20:22	10
Chromium	19		0.58	0.29	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Cobalt	13		0.29	0.076	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Copper	22		0.58	0.16	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Iron	18000		12	6.0	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Lead	16		0.29	0.13	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Magnesium	30000		5.8	2.9	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Manganese	290		0.58	0.084	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Nickel	31		0.58	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Potassium	3300		29	10	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Silver	3.3		0.29	0.075	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Sodium	290		58	8.6	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Vanadium	28		0.29	0.068	mg/Kg	☼	01/31/20 06:48	02/01/20 02:38	1
Zinc	56		1.2	0.51	mg/Kg	☼	01/31/20 06:48	02/03/20 20:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 19:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 19:30	1
Manganese	0.34		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B02

Lab Sample ID: 500-176793-2

Date Collected: 01/23/20 10:25

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042	J	0.050	0.010	mg/L		02/08/20 16:41	02/10/20 16:52	1
Barium	0.26	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 16:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 16:52	1
Boron	0.11		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 16:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 16:52	1
Calcium	26		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:52	1
Chromium	0.070		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:52	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:52	1
Iron	81		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 16:52	1
Lead	0.050		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 16:52	1
Manganese	0.26		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:52	1
Nickel	0.096		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:52	1
Potassium	14		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 16:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 16:52	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 16:52	1
Zinc	0.20	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 16:52	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		02/10/20 06:31	02/11/20 12:58	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		02/08/20 16:41	02/11/20 11:47	1
Thallium	0.0044		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 22:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0065	mg/Kg	☼	02/10/20 15:05	02/11/20 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.26	mg/Kg	☼	02/06/20 10:00	02/06/20 14:39	1
pH	8.1		0.2	0.2	SU			01/30/20 15:48	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B02 Dup

Lab Sample ID: 500-176793-3

Date Collected: 01/23/20 10:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Acetone	0.0083	J	0.016	0.0069	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Chloromethane	<0.0040	*	0.0040	0.0016	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/24/20 17:25	02/04/20 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/24/20 17:25	02/04/20 19:52	1
4-Bromofluorobenzene (Surr)	105		75 - 131	01/24/20 17:25	02/04/20 19:52	1
Dibromofluoromethane	98		75 - 126	01/24/20 17:25	02/04/20 19:52	1
Toluene-d8 (Surr)	95		75 - 124	01/24/20 17:25	02/04/20 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B02 Dup

Lab Sample ID: 500-176793-3

Date Collected: 01/23/20 10:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Acenaphthylene	0.040		0.039	0.0052	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Anthracene	0.045		0.039	0.0066	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Benzo[a]anthracene	0.046		0.039	0.0053	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Benzo[a]pyrene	0.066		0.039	0.0076	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Benzo[b]fluoranthene	0.094		0.039	0.0085	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Benzo[g,h,i]perylene	0.033	J	0.039	0.013	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Benzo[k]fluoranthene	0.031	J	0.039	0.012	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Bis(2-ethylhexyl) phthalate	0.095	J	0.20	0.072	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Chrysene	0.072		0.039	0.011	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Dibenz(a,h)anthracene	0.013	J	0.039	0.0076	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Di-n-butyl phthalate	0.077	J	0.20	0.060	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Fluoranthene	0.087		0.039	0.0073	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B02 Dup

Lab Sample ID: 500-176793-3

Date Collected: 01/23/20 10:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.033	J	0.039	0.010	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Phenanthrene	0.028	J	0.039	0.0055	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Pyrene	0.067		0.039	0.0078	mg/Kg	☼	02/04/20 16:31	02/05/20 23:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		31 - 143				02/04/20 16:31	02/05/20 23:01	1
2-Fluorobiphenyl	89		43 - 145				02/04/20 16:31	02/05/20 23:01	1
2-Fluorophenol	94		31 - 166				02/04/20 16:31	02/05/20 23:01	1
Nitrobenzene-d5	99		37 - 147				02/04/20 16:31	02/05/20 23:01	1
Phenol-d5	86		30 - 153				02/04/20 16:31	02/05/20 23:01	1
Terphenyl-d14	121		42 - 157				02/04/20 16:31	02/05/20 23:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.2	0.23	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Arsenic	6.9		0.59	0.20	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Barium	61		0.59	0.067	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Beryllium	0.91		0.24	0.055	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Boron	18		3.0	0.28	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Cadmium	0.17	B	0.12	0.021	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Calcium	60000	B	120	20	mg/Kg	☼	01/31/20 06:48	02/03/20 20:30	10
Chromium	20		0.59	0.29	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Cobalt	15		0.30	0.077	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Copper	21		0.59	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Iron	18000		12	6.2	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Lead	15		0.30	0.14	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Magnesium	21000		5.9	2.9	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Manganese	350		0.59	0.086	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Nickel	37		0.59	0.17	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Potassium	3400		30	10	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Silver	3.6		0.30	0.076	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Sodium	280		59	8.8	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Vanadium	27		0.30	0.070	mg/Kg	☼	01/31/20 06:48	02/01/20 02:42	1
Zinc	57		1.2	0.52	mg/Kg	☼	01/31/20 06:48	02/03/20 20:26	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		02/10/20 06:31	02/10/20 19:35	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:35	1
Iron	<0.40		0.40	0.20	mg/L		02/10/20 06:31	02/10/20 19:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/20 06:31	02/10/20 19:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Client Sample ID: 2955V-38-B02 Dup

Lab Sample ID: 500-176793-3

Date Collected: 01/23/20 10:30

Matrix: Solid

Date Received: 01/23/20 13:50

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.053		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:35	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/20 06:31	02/10/20 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.049	J	0.050	0.010	mg/L		02/08/20 16:41	02/10/20 17:04	1
Barium	0.45	J	0.50	0.050	mg/L		02/08/20 16:41	02/10/20 17:04	1
Beryllium	0.0057		0.0040	0.0040	mg/L		02/08/20 16:41	02/10/20 17:04	1
Boron	0.14		0.10	0.050	mg/L		02/08/20 16:41	02/10/20 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/20 16:41	02/10/20 17:04	1
Calcium	50		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:04	1
Chromium	0.11		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:04	1
Cobalt	0.029		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:04	1
Iron	110		0.40	0.20	mg/L		02/08/20 16:41	02/10/20 17:04	1
Lead	0.079		0.0075	0.0075	mg/L		02/08/20 16:41	02/10/20 17:04	1
Manganese	0.45		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:04	1
Nickel	0.13		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:04	1
Potassium	21		2.5	0.50	mg/L		02/08/20 16:41	02/10/20 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/20 16:41	02/10/20 17:04	1
Silver	<0.025		0.025	0.010	mg/L		02/08/20 16:41	02/10/20 17:04	1
Zinc	0.35	J B	0.50	0.020	mg/L		02/08/20 16:41	02/10/20 17:04	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		02/10/20 06:31	02/11/20 13:00	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		02/08/20 16:41	02/11/20 11:49	1
Thallium	0.0025		0.0020	0.0020	mg/L		02/08/20 16:41	02/10/20 22:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023	F1	0.00020	0.00020	mg/L		02/10/20 10:45	02/11/20 11:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0060	mg/Kg	☼	02/10/20 15:05	02/11/20 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.28	mg/Kg	☼	02/06/20 10:00	02/06/20 14:39	1
pH	8.2		0.2	0.2	SU			01/30/20 15:52	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176793-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.


Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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	 500-176793 COC	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>AE7-33A</u> Project No.: <u>PTB/WO-184-006/33A</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 <u>Shaun Frische</u> Sampler:	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176793</u> Sample Temp.: <u>2.9</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.
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.

ANALYSES																			
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
1	2955V-38-1301	1/23	1040	S	X	X					X	X	X	X	X				
2	2955V-38-1302		1025	↓	↓	↓					↓	↓	↓	↓	↓				
3	2955V-38-1302 DWA		1030	↓	↓	↓					↓	↓	↓	↓	↓				
4	2955V-38-1303		1015	↓	↓	↓					↓	↓	↓	↓	↓				

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

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/23 1350</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/23/20 1350</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

905-921 West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79011 Longitude: -87.87977
(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: 0310575065 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 34

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-40-B02 WAS SAMPLED ADJACENT TO SITE 2955V-40. SEE TABLE 3t AND FIGURE 7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176719-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

**ISGS Site 2955V-40
Commercial Building**

Sample ID	2955V-40-B02	Maximum Allowable Concentration				
Sample Depth (ft)	0-4					
Sample Date	1/22/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.1					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176719-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/10/2020 12:33:08 PM

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

LINKS

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results through
TotalAccess

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www.testamericainc.com

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176719-1

Client Sample ID: 2955V-40-B02

Lab Sample ID: 500-176719-1

Date Collected: 01/22/20 12:30

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
1,2-Dichloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
2-Butanone (MEK)	0.0047	J	0.0053	0.0023	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Acetone	0.019	J	0.021	0.0092	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	☼	01/22/20 17:10	02/02/20 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	01/22/20 17:10	02/02/20 17:28	1
4-Bromofluorobenzene (Surr)	102		75 - 131	01/22/20 17:10	02/02/20 17:28	1
Dibromofluoromethane	99		75 - 126	01/22/20 17:10	02/02/20 17:28	1
Toluene-d8 (Surr)	88		75 - 124	01/22/20 17:10	02/02/20 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176719-1

Client Sample ID: 2955V-40-B02

Lab Sample ID: 500-176719-1

Date Collected: 01/22/20 12:30

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.099	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2,4-Dinitrotoluene	<0.22		0.22	0.069	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2-Chlorophenol	<0.22		0.22	0.074	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2-Methylnaphthalene	<0.087		0.087	0.0080	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.061	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.051	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Acenaphthene	<0.043		0.043	0.0078	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Benzo[a]anthracene	0.012	J	0.043	0.0058	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Benzo[a]pyrene	0.013	J	0.043	0.0084	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Benzo[b]fluoranthene	0.021	J	0.043	0.0093	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Chrysene	0.016	J	0.043	0.012	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0084	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Dimethyl phthalate	<0.22		0.22	0.057	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Di-n-octyl phthalate	<0.22		0.22	0.071	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Fluoranthene	0.028	J	0.043	0.0080	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Fluorene	<0.043		0.043	0.0061	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Hexachloroethane	<0.22		0.22	0.066	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176719-1

Client Sample ID: 2955V-40-B02

Lab Sample ID: 500-176719-1

Date Collected: 01/22/20 12:30

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Naphthalene	<0.043		0.043	0.0067	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.053	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Phenanthrene	0.013	J	0.043	0.0060	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Phenol	<0.22		0.22	0.096	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Pyrene	0.025	J	0.043	0.0086	mg/Kg	☼	01/30/20 13:29	01/31/20 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		31 - 143				01/30/20 13:29	01/31/20 12:17	1
2-Fluorobiphenyl	84		43 - 145				01/30/20 13:29	01/31/20 12:17	1
2-Fluorophenol	93		31 - 166				01/30/20 13:29	01/31/20 12:17	1
Nitrobenzene-d5	73		37 - 147				01/30/20 13:29	01/31/20 12:17	1
Phenol-d5	98		30 - 153				01/30/20 13:29	01/31/20 12:17	1
Terphenyl-d14	114		42 - 157				01/30/20 13:29	01/31/20 12:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.3	0.25	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Arsenic	7.3		0.64	0.22	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Barium	120	B	0.64	0.073	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Beryllium	0.97		0.26	0.060	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Boron	8.9		3.2	0.30	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Cadmium	0.18	B	0.13	0.023	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Calcium	6200	B	13	2.2	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Chromium	21		0.64	0.32	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Cobalt	13		0.32	0.084	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Copper	17		0.64	0.18	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Iron	20000	B	13	6.6	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Lead	20		0.32	0.15	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Magnesium	4400		6.4	3.2	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Manganese	560	B	0.64	0.093	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Nickel	23		0.64	0.19	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Potassium	3300		32	11	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Selenium	0.95		0.64	0.38	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Silver	3.4		0.32	0.082	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Sodium	500		64	9.4	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Vanadium	35		0.32	0.075	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	1
Zinc	72	B	1.3	0.56	mg/Kg	☼	01/30/20 07:14	01/30/20 21:12	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		02/06/20 14:35	02/07/20 10:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:53	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 10:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/06/20 14:35	02/07/20 10:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176719-1

Client Sample ID: 2955V-40-B02

Lab Sample ID: 500-176719-1

Date Collected: 01/22/20 12:30

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.30		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:53	1
Nickel	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		02/05/20 15:33	02/06/20 12:58	1
Barium	0.55		0.50	0.050	mg/L		02/05/20 15:33	02/06/20 12:58	1
Beryllium	0.0053		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 12:58	1
Boron	0.12		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 12:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 12:58	1
Calcium	18		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:58	1
Chromium	0.11		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:58	1
Cobalt	0.023	J	0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:58	1
Iron	91		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 12:58	1
Lead	0.049		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 12:58	1
Manganese	0.58		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:58	1
Nickel	0.084		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:58	1
Potassium	27		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 12:58	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 12:58	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 12:58	1
Zinc	0.56		0.50	0.020	mg/L		02/05/20 15:33	02/06/20 12:58	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		02/06/20 14:35	02/07/20 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/05/20 15:33	02/06/20 12:54	1
Thallium	0.0020		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00055		0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.020	0.0066	mg/Kg	☼	02/06/20 13:55	02/07/20 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	02/05/20 09:15	02/05/20 13:34	1
pH	8.1		0.2	0.2	SU			01/29/20 14:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176719-1

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.

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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>AP7-33A</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>PTB/WO:184-006/33A</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	Lab Job No.: <u>500-176719</u> Sample Temp: <u>4.1 48qt.</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.		Analyses	Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate JW: Drinking Water OL: Oil O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES													Waste Characterization	Comments
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids				
1	<u>2955V-40-1307</u>	<u>1-22</u>	<u>1230</u>	<u>S</u>	X	X					X	X	X	X	X				
	2955V-40-1302			↓	↓	↓					↓	↓	↓	↓	↓				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1-22-2020 1520</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1-22-20 1520</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>1-22-20 1615</u>	Received by: <u>Stephanie Hernandez</u>	Date/Time: <u>1/22/20 1615</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 1504 (55th Street) Office Phone Number, if available: _____

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

901West 55th Street

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79014 Longitude: - 87.87889
(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: 0310570014 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 8

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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@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: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@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.

Uncontaminated Soil 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 2955V-41-B02 AND 2955V-41-B03 WERE SAMPLED ADJACENT TO SITE 2955V-41. SEE TABLE 3u AND FIGURE 7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176721-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
 Street Address: 420 Eisenhower Lane North
 City: Lombard State: IL Zip Code: 60148
 Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Mar 2, 2021
Date:



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.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2955V-41
Citgo Gas Station

Sample ID	2955V-41-B02	2955V-41-B03	Maximum Allowable Concentration					
Sample Depth (ft)	0-2	0-2						
Sample Date	1/22/2020	1/22/2020						
PID	0	0						
Sample pH	8.3	8.1						
Matrix	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)								
Benzo(a)pyrene	J 0.022	0.22	1,2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176721-1
Client Project/Site: IDOT - AE7-033

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
2/10/2020 12:35:42 PM

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

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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.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

Client Sample ID: 2955V-41-B02

Lab Sample ID: 500-176721-2

Date Collected: 01/22/20 12:10

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
1,1-Dichloroethene	<0.0021		0.0021	0.00074	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Acetone	0.018	J	0.021	0.0093	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1
Xylenes, Total	<0.0043		0.0043	0.00068	mg/Kg	☼	01/22/20 17:10	02/02/20 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	01/22/20 17:10	02/02/20 18:19	1
4-Bromofluorobenzene (Surr)	105		75 - 131	01/22/20 17:10	02/02/20 18:19	1
Dibromofluoromethane	101		75 - 126	01/22/20 17:10	02/02/20 18:19	1
Toluene-d8 (Surr)	89		75 - 124	01/22/20 17:10	02/02/20 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

Client Sample ID: 2955V-41-B02

Lab Sample ID: 500-176721-2

Date Collected: 01/22/20 12:10

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2,4-Dichlorophenol	<0.40		0.40	0.094	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Acenaphthene	<0.040		0.040	0.0071	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Anthracene	<0.040		0.040	0.0066	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Benzo[a]anthracene	0.016	J	0.040	0.0054	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Benzo[a]pyrene	0.022	J	0.040	0.0077	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Benzo[b]fluoranthene	0.035	J	0.040	0.0086	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Benzo[g,h,i]perylene	0.013	J	0.040	0.013	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Chrysene	0.023	J	0.040	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Fluoranthene	0.030	J	0.040	0.0074	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

Client Sample ID: 2955V-41-B02

Lab Sample ID: 500-176721-2

Date Collected: 01/22/20 12:10

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.011	J	0.040	0.010	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Phenanthrene	0.016	J	0.040	0.0055	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Pyrene	0.032	J	0.040	0.0079	mg/Kg	☼	01/31/20 16:48	02/03/20 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		31 - 143				01/31/20 16:48	02/03/20 14:28	1
2-Fluorobiphenyl	85		43 - 145				01/31/20 16:48	02/03/20 14:28	1
2-Fluorophenol	86		31 - 166				01/31/20 16:48	02/03/20 14:28	1
Nitrobenzene-d5	74		37 - 147				01/31/20 16:48	02/03/20 14:28	1
Phenol-d5	90		30 - 153				01/31/20 16:48	02/03/20 14:28	1
Terphenyl-d14	114		42 - 157				01/31/20 16:48	02/03/20 14:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.2	0.23	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Arsenic	6.2		0.60	0.20	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Barium	60	B	0.60	0.068	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Beryllium	1.2		0.24	0.056	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Boron	20		3.0	0.28	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Cadmium	0.19	B	0.12	0.021	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Calcium	22000	B	12	2.0	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Chromium	26		0.60	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Cobalt	19		0.30	0.078	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Copper	26		0.60	0.17	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Iron	22000	B	12	6.2	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Lead	19		0.30	0.14	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Magnesium	14000		6.0	3.0	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Manganese	390	B	0.60	0.086	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Nickel	52		0.60	0.17	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Potassium	4900		30	11	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Silver	3.1		0.30	0.077	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Sodium	420		60	8.8	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Thallium	0.33	J	0.60	0.30	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Vanadium	29		0.30	0.070	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1
Zinc	62	B	1.2	0.52	mg/Kg	☼	01/30/20 07:14	01/30/20 21:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.014	J	0.050	0.010	mg/L		02/06/20 14:35	02/07/20 11:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/06/20 14:35	02/07/20 11:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 11:23	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 11:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

Client Sample ID: 2955V-41-B02

Lab Sample ID: 500-176721-2

Date Collected: 01/22/20 12:10

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 81.6

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		02/06/20 14:35	02/07/20 11:23	1
Manganese	0.062		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 11:23	1
Nickel	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063		0.050	0.010	mg/L		02/05/20 15:33	02/06/20 13:06	1
Barium	0.56		0.50	0.050	mg/L		02/05/20 15:33	02/06/20 13:06	1
Beryllium	0.0090		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 13:06	1
Boron	0.26		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 13:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 13:06	1
Calcium	53		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 13:06	1
Chromium	0.16		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:06	1
Cobalt	0.053		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:06	1
Iron	150		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 13:06	1
Lead	0.087		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 13:06	1
Manganese	0.72		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:06	1
Nickel	0.19		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:06	1
Potassium	42		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 13:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 13:06	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:06	1
Zinc	0.42	J	0.50	0.020	mg/L		02/05/20 15:33	02/06/20 13:06	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		02/06/20 14:35	02/07/20 13:34	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		02/05/20 15:33	02/06/20 13:02	1
Thallium	0.0041		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00030		0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0060	mg/Kg	☼	02/06/20 13:55	02/07/20 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	02/03/20 13:00	02/03/20 15:54	1
pH	8.3		0.2	0.2	SU			01/29/20 14:08	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

Client Sample ID: 2955V-41-B03

Lab Sample ID: 500-176721-3

Date Collected: 01/22/20 12:00

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	01/22/20 17:10	02/02/20 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	01/22/20 17:10	02/02/20 18:45	1
4-Bromofluorobenzene (Surr)	103		75 - 131	01/22/20 17:10	02/02/20 18:45	1
Dibromofluoromethane	99		75 - 126	01/22/20 17:10	02/02/20 18:45	1
Toluene-d8 (Surr)	90		75 - 124	01/22/20 17:10	02/02/20 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

Client Sample ID: 2955V-41-B03

Lab Sample ID: 500-176721-3

Date Collected: 01/22/20 12:00

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2-Methylnaphthalene	<0.086		0.086	0.0079	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
3 & 4 Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Anthracene	0.024	J	0.043	0.0072	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Benzo[a]anthracene	0.17		0.043	0.0058	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Benzo[a]pyrene	0.22		0.043	0.0083	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Benzo[b]fluoranthene	0.34		0.043	0.0092	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Benzo[g,h,i]perylene	0.088		0.043	0.014	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Benzo[k]fluoranthene	0.12		0.043	0.013	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Chrysene	0.21		0.043	0.012	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Fluoranthene	0.40		0.043	0.0079	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Fluorene	0.0079	J	0.043	0.0060	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Hexachlorocyclopentadiene	<0.86		0.86	0.25	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

Client Sample ID: 2955V-41-B03

Lab Sample ID: 500-176721-3

Date Collected: 01/22/20 12:00

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.067		0.043	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Pentachlorophenol	<0.86		0.86	0.69	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Phenanthrene	0.17		0.043	0.0060	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Phenol	<0.22		0.22	0.095	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Pyrene	0.36		0.043	0.0085	mg/Kg	☼	01/31/20 16:48	02/03/20 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		31 - 143				01/31/20 16:48	02/03/20 14:52	1
2-Fluorobiphenyl	88		43 - 145				01/31/20 16:48	02/03/20 14:52	1
2-Fluorophenol	91		31 - 166				01/31/20 16:48	02/03/20 14:52	1
Nitrobenzene-d5	78		37 - 147				01/31/20 16:48	02/03/20 14:52	1
Phenol-d5	90		30 - 153				01/31/20 16:48	02/03/20 14:52	1
Terphenyl-d14	122		42 - 157				01/31/20 16:48	02/03/20 14:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.24	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Arsenic	7.0		0.62	0.21	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Barium	93	B	0.62	0.071	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Beryllium	1.0		0.25	0.058	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Boron	14		3.1	0.29	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Cadmium	0.25	B	0.12	0.022	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Calcium	20000	B	12	2.1	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Chromium	23		0.62	0.31	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Cobalt	16		0.31	0.082	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Copper	20		0.62	0.17	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Iron	20000	B	12	6.5	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Lead	26		0.31	0.14	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Magnesium	11000		6.2	3.1	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Manganese	370	B	0.62	0.090	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Nickel	31		0.62	0.18	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Potassium	3500		31	11	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Selenium	0.38	J	0.62	0.37	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Silver	3.4		0.31	0.080	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Sodium	270		62	9.2	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Vanadium	33		0.31	0.074	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	1
Zinc	81	B	1.2	0.55	mg/Kg	☼	01/30/20 07:14	01/30/20 21:32	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		02/06/20 14:35	02/07/20 11:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 11:28	1
Iron	<0.40		0.40	0.20	mg/L		02/06/20 14:35	02/07/20 11:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/06/20 14:35	02/07/20 11:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

Client Sample ID: 2955V-41-B03

Lab Sample ID: 500-176721-3

Date Collected: 01/22/20 12:00

Matrix: Solid

Date Received: 01/22/20 16:15

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.024	J	0.025	0.010	mg/L		02/06/20 14:35	02/07/20 11:28	1
Nickel	<0.025		0.025	0.010	mg/L		02/06/20 14:35	02/07/20 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.046	J	0.050	0.010	mg/L		02/05/20 15:33	02/06/20 13:10	1
Barium	0.58		0.50	0.050	mg/L		02/05/20 15:33	02/06/20 13:10	1
Beryllium	0.0065		0.0040	0.0040	mg/L		02/05/20 15:33	02/06/20 13:10	1
Boron	0.19		0.10	0.050	mg/L		02/05/20 15:33	02/06/20 13:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/20 15:33	02/06/20 13:10	1
Calcium	31		2.5	0.50	mg/L		02/05/20 15:33	02/06/20 13:10	1
Chromium	0.13		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:10	1
Cobalt	0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:10	1
Iron	120		0.40	0.20	mg/L		02/05/20 15:33	02/06/20 13:10	1
Lead	0.089		0.0075	0.0075	mg/L		02/05/20 15:33	02/06/20 13:10	1
Manganese	0.51		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:10	1
Nickel	0.12		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:10	1
Potassium	30	F1	2.5	0.50	mg/L		02/05/20 15:33	02/06/20 13:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/20 15:33	02/06/20 13:10	1
Silver	<0.025		0.025	0.010	mg/L		02/05/20 15:33	02/06/20 13:10	1
Zinc	0.52		0.50	0.020	mg/L		02/05/20 15:33	02/06/20 13:10	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		02/06/20 14:35	02/07/20 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		02/05/20 15:33	02/06/20 13:04	1
Thallium	0.0024		0.0020	0.0020	mg/L		02/05/20 15:33	02/06/20 13:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036		0.00020	0.00020	mg/L		02/07/20 09:35	02/10/20 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074	F1 F2	0.019	0.0063	mg/Kg	☼	02/06/20 13:55	02/07/20 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	02/03/20 13:00	02/03/20 15:54	1
pH	8.1		0.2	0.2	SU			01/29/20 14:17	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-033

Job ID: 500-176721-1

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.

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.


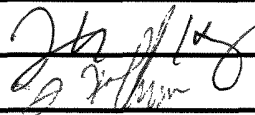
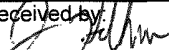

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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.
▫	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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>AE7-33A</u> Project No.: <u>PTB/WO: 184-006/33A</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>JOSHUA HEY</u>					COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-176721</u> Sample Temp: <u>41 48gt</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. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.					ANALYSES										Matrix Key:  500-176721 COC W: Water S: Soil SL: Sludge S: Sediment L: Leachate JW: 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	*** Cyanide	pH	% Solids	Waste Characterization	Comments	
1	2955V-41-1301	1-22	1220	S	X	X					X	X	X	X	X			
2	2955V-41-1302	↓	1210	↓	↓	↓					↓	↓	↓	↓	↓			
3	2955V-41-1303	✓	1200	↓	↓	↓					↓	↓	↓	↓	↓			
Relinquished by: 					Date/Time: <u>1-22-2020 1520</u>					Received by: 					Date/Time: <u>1-22-20 1500</u>			
Relinquished by: 					Date/Time: <u>1-22-20 1615</u>					Received by: <u>Stephanie Hernandez</u>					Date/Time: <u>1/22/20 1615</u>			
Relinquished by:					Date/Time:					Received by:					Date/Time:			