



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: FAP 344 (IL 83) Office Phone Number, if available: _____

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

1000-1200 blocks of Kingery Highway (NW and NE quadrants of intersection of IL 83 (Kingery Hwy) and IL 38 (Roosevelt Rd.))

City: Oakbrook Terrace/Elmhurst State: IL Zip Code: 60181 & 60126

County: DuPage Township: York

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

Latitude: 41.86338 Longitude: - 87.95918
(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: 0434705098 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 4,255

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 3563-2-B01 THROUGH 3563-2-B11, 3563-2-B14, 3563-2-B16 THROUGH 3563-2-B19, 3563-2-B21 AND 3563-2-B22 WERE SAMPLED ADJACENT TO SITE 3563-2. SEE TABLE 3 AND FIGURES 3 AND 4 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: 500-195896-1, 500-195966-1 AND 500-196114-1.

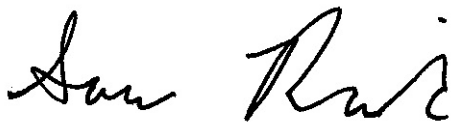
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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:

Apr 9, 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 3563-2
ROW

Sample ID	3563-2-B01	3563-2-B02	3563-2-B03	3563-2-B04	3563-2-B05	Maximum Allowable Concentration						
Sample Depth (ft)	0-4	0-4	0-8	0-8	0-8	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	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021							
PID	0	0	0	0	0							
Sample pH	8.1	8.5	8.6	8.4	7.8							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	1.1	1,2,3	J 0.01	ND	J 0.015	ND	0.09	0.09	0.98	1.3	2.1	
Benzo(b)fluoranthene	1.6	1,2,3,4	J 0.014	ND	J 0.022	J 0.013	0.9	0.9	0.9	1.5	2.1	
Dibenzo(a,h)anthracene	0.13	1,2	ND	ND	ND	ND	0.09	0.09	0.15	0.2	0.42	
Indeno(1,2,3-cd)pyrene	0.65		ND	ND	ND	ND	0.9	0.9	0.9	0.9	1.6	
Inorganic Compounds, Total (mg/kg)												
Arsenic	8.9		11	13	1,3	11	6.8	11.3	--	11.3	--	13

Sample ID	3563-2-B06	3563-2-B07	3563-2-B08	3563-2-B09	3563-2-B10	Maximum Allowable Concentration						
Sample Depth (ft)	0-8	0-4	0-4	0-8	0-8	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	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021							
PID	0	0	0	0	0							
Sample pH	7.7	7.5	8	8.2	9							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	0.05		J 0.031	0.049	0.28	1,2	0.12	0.09	0.09	0.98	1.3	2.1
Benzo(b)fluoranthene	0.07		J 0.042	0.075	0.38		0.2	0.9	0.9	0.9	1.5	2.1
Dibenzo(a,h)anthracene	ND		ND	ND	0.042		J 0.016	0.09	0.09	0.15	0.2	0.42
Indeno(1,2,3-cd)pyrene	J 0.026		J 0.015	J 0.02	0.12		0.048	0.9	0.9	0.9	0.9	1.6
Inorganic Compounds, Total (mg/kg)												
Arsenic	7		9.7	8.3	9.4	11	11.3	--	11.3	--	13	

Sample ID	3563-2-B10 DUP	3563-2-B11	3563-2-B14	3563-2-B16	3563-2-B17	Maximum Allowable Concentration						
Sample Depth (ft)	0-8	0-8	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	3/9/2021	3/9/2021	3/9/2021	3/12/2021	3/10/2021							
PID	0	0	0	0	0							
Sample pH	7.5	8.1	8.3	8.2	8.4							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	0.11	1,2	0.46	J 0.035	0.09		J 0.019	0.09	0.09	0.98	1.3	2.1
Benzo(b)fluoranthene	0.14		0.68	0.049	0.094		J 0.029	0.9	0.9	0.9	1.5	2.1
Dibenzo(a,h)anthracene	J 0.013		0.042	ND	J 0.0088		ND	0.09	0.09	0.15	0.2	0.42
Indeno(1,2,3-cd)pyrene	0.047		0.17	J 0.017	0.045		J 0.011	0.9	0.9	0.9	0.9	1.6
Inorganic Compounds, Total (mg/kg)												
Arsenic	10		5.5	11	7.6	9.5	11.3	--	11.3	--	13	

Sample ID	3563-2-B18	3563-2-B19	3563-2-B21	3563-2-B22	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	3/10/2021	3/10/2021	3/10/2021	3/10/2021							
PID	0	0	0	0							
Sample pH	7.8	8.1	8.6	8.4							
Matrix	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	1.1	1,2,3	0.25	1.1	1,2,3	0.15	0.09	0.09	0.98	1.3	2.1
Benzo(b)fluoranthene	1.8	1,2,3,4	0.42	1.8	1,2,3,4	0.23	0.9	0.9	0.9	1.5	2.1
Dibenzo(a,h)anthracene	0.12	1,2	J 0.023	0.097	1,2	J 0.02	0.09	0.09	0.15	0.2	0.42
Indeno(1,2,3-cd)pyrene	0.48		0.071	0.29		0.046	0.9	0.9	0.9	0.9	1.6
Inorganic Compounds, Total (mg/kg)											
Arsenic	8		7.8	3.6	8.4	11.3	--	11.3	--	13	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-195896-1
Client Project/Site: IDOT - AE7-041

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
3/22/2021 4:12:42 PM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B01

Lab Sample ID: 500-195896-1

Date Collected: 03/09/21 10:35

Matrix: Solid

Date Received: 03/10/21 11:47

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	<0.0020		0.0020	0.00067	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Acetone	<0.020	*1	0.020	0.0087	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Bromomethane	<0.0050	*-	0.0050	0.0019	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	✱	03/10/21 17:00	03/14/21 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	03/10/21 17:00	03/14/21 16:12	1
4-Bromofluorobenzene (Surr)	103		75 - 131	03/10/21 17:00	03/14/21 16:12	1
Dibromofluoromethane	101		75 - 126	03/10/21 17:00	03/14/21 16:12	1
Toluene-d8 (Surr)	93		75 - 124	03/10/21 17:00	03/14/21 16:12	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	0.046	mg/Kg	✱	03/15/21 19:50	03/16/21 18:58	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	✱	03/15/21 19:50	03/16/21 18:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	✱	03/15/21 19:50	03/16/21 18:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	✱	03/15/21 19:50	03/16/21 18:58	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	✱	03/15/21 19:50	03/16/21 18:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B01

Lab Sample ID: 500-195896-1

Date Collected: 03/09/21 10:35

Matrix: Solid

Date Received: 03/10/21 11:47

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	<0.42		0.42	0.096	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2-Methylnaphthalene	<0.085		0.085	0.0078	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Acenaphthene	0.016	J	0.042	0.0076	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Acenaphthylene	0.017	J	0.042	0.0056	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Anthracene	0.059		0.042	0.0071	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Benzo[a]anthracene	0.57		0.042	0.0057	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Bis(2-ethylhexyl) phthalate	0.10	J	0.21	0.077	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Carbazole	<0.21		0.21	0.11	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Chrysene	0.90		0.042	0.012	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Fluoranthene	1.2		0.042	0.0078	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Fluorene	0.015	J	0.042	0.0059	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Isophorone	<0.21		0.21	0.047	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Naphthalene	0.0084	J	0.042	0.0065	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	✳	03/15/21 19:50	03/16/21 18:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B01

Lab Sample ID: 500-195896-1

Date Collected: 03/09/21 10:35

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	03/15/21 19:50	03/16/21 18:58	1
Phenanthrene	0.38		0.042	0.0059	mg/Kg	☼	03/15/21 19:50	03/16/21 18:58	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	03/15/21 19:50	03/16/21 18:58	1
Pyrene	1.5		0.042	0.0084	mg/Kg	☼	03/15/21 19:50	03/16/21 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		31 - 143				03/15/21 19:50	03/16/21 18:58	1
2-Fluorobiphenyl	87		43 - 145				03/15/21 19:50	03/16/21 18:58	1
2-Fluorophenol	93		31 - 166				03/15/21 19:50	03/16/21 18:58	1
Nitrobenzene-d5	91		37 - 147				03/15/21 19:50	03/16/21 18:58	1
Phenol-d5	98		30 - 153				03/15/21 19:50	03/16/21 18:58	1
Terphenyl-d14	117		42 - 157				03/15/21 19:50	03/16/21 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.1		0.084	0.016	mg/Kg	☼	03/15/21 19:50	03/16/21 22:58	2
Benzo[b]fluoranthene	1.6		0.084	0.018	mg/Kg	☼	03/15/21 19:50	03/16/21 22:58	2
Benzo[g,h,i]perylene	0.70		0.084	0.027	mg/Kg	☼	03/15/21 19:50	03/16/21 22:58	2
Benzo[k]fluoranthene	0.51		0.084	0.025	mg/Kg	☼	03/15/21 19:50	03/16/21 22:58	2
Dibenz(a,h)anthracene	0.13		0.084	0.016	mg/Kg	☼	03/15/21 19:50	03/16/21 22:58	2
Indeno[1,2,3-cd]pyrene	0.65		0.084	0.022	mg/Kg	☼	03/15/21 19:50	03/16/21 22:58	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	100		31 - 143				03/15/21 19:50	03/16/21 22:58	2
2-Fluorobiphenyl	102		43 - 145				03/15/21 19:50	03/16/21 22:58	2
2-Fluorophenol	106		31 - 166				03/15/21 19:50	03/16/21 22:58	2
Nitrobenzene-d5	83		37 - 147				03/15/21 19:50	03/16/21 22:58	2
Phenol-d5	92		30 - 153				03/15/21 19:50	03/16/21 22:58	2
Terphenyl-d14	99		42 - 157				03/15/21 19:50	03/16/21 22:58	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J F1	1.2	0.23	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Arsenic	8.9	F1	0.60	0.21	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Barium	96		0.60	0.069	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Beryllium	0.98		0.24	0.056	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Boron	5.6	F1	3.0	0.28	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Cadmium	0.31	F1 B	0.12	0.022	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Calcium	4900	F2	12	2.0	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Chromium	20		0.60	0.30	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Cobalt	13		0.30	0.079	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Copper	26	F1	0.60	0.17	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Iron	21000		12	6.3	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Lead	46		0.30	0.14	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Magnesium	4500		6.0	3.0	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Manganese	460		0.60	0.087	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Nickel	29		0.60	0.18	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Potassium	2000	F1	30	11	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Selenium	0.38	J F1	0.60	0.35	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Silver	0.42		0.30	0.078	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B01

Lab Sample ID: 500-195896-1

Date Collected: 03/09/21 10:35

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	2000	F1	60	8.9	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Thallium	0.84		0.60	0.30	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Vanadium	26		0.30	0.071	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	1
Zinc	100	F1	1.2	0.53	mg/Kg	☼	03/16/21 06:34	03/16/21 17:56	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		03/17/21 17:03	03/19/21 12:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:03	03/19/21 12:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 12:47	1
Iron	<0.40		0.40	0.20	mg/L		03/17/21 17:03	03/19/21 12:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/21 17:03	03/19/21 12:47	1
Manganese	0.54		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 09:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 12:47	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		03/17/21 17:06	03/18/21 14:13	1
Barium	0.67		0.50	0.050	mg/L		03/17/21 17:06	03/18/21 14:13	1
Beryllium	0.0081		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 14:13	1
Boron	0.26	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 14:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 14:13	1
Calcium	32	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:05	1
Chromium	0.16		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:13	1
Cobalt	0.044		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:13	1
Iron	170	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:05	1
Lead	0.15		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 14:13	1
Manganese	0.61		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:13	1
Nickel	0.18		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:13	1
Potassium	31		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 14:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 14:13	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:13	1
Zinc	0.62		0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:05	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		03/17/21 17:03	03/18/21 16:45	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		03/17/21 17:06	03/18/21 13:48	1
Thallium	0.0046		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 13:48	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		03/18/21 10:00	03/19/21 09:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0068	mg/Kg	☼	03/17/21 14:40	03/18/21 07:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B01

Lab Sample ID: 500-195896-1

Date Collected: 03/09/21 10:35

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 78.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30		0.30	0.15	mg/Kg	☼	03/11/21 10:41	03/11/21 13:32	1
pH	8.1		0.2	0.2	SU			03/16/21 18:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B02

Lab Sample ID: 500-195896-2

Date Collected: 03/09/21 10:45

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Acetone	<0.017	*1	0.017	0.0073	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Bromomethane	<0.0042	*-	0.0042	0.0016	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	03/10/21 17:00	03/14/21 16:38	1
4-Bromofluorobenzene (Surr)	102		75 - 131	03/10/21 17:00	03/14/21 16:38	1
Dibromofluoromethane	86		75 - 126	03/10/21 17:00	03/14/21 16:38	1
Toluene-d8 (Surr)	107		75 - 124	03/10/21 17:00	03/14/21 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/15/21 19:50	03/16/21 13:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/15/21 19:50	03/16/21 13:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 13:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/15/21 19:50	03/16/21 13:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/15/21 19:50	03/16/21 13:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B02

Lab Sample ID: 500-195896-2

Date Collected: 03/09/21 10:45

Matrix: Solid

Date Received: 03/10/21 11:47

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	✳	03/15/21 19:50	03/16/21 13:39	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Benzo[a]anthracene	0.0095	J	0.040	0.0054	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Benzo[a]pyrene	0.010	J	0.040	0.0077	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Benzo[b]fluoranthene	0.014	J	0.040	0.0086	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Chrysene	0.011	J	0.040	0.011	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Fluoranthene	0.016	J	0.040	0.0074	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B02

Lab Sample ID: 500-195896-2

Date Collected: 03/09/21 10:45

Matrix: Solid

Date Received: 03/10/21 11:47

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	✳	03/15/21 19:50	03/16/21 13:39	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Phenanthrene	0.0095	J	0.040	0.0055	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Phenol	<0.20		0.20	0.088	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Pyrene	0.018	J	0.040	0.0079	mg/Kg	✳	03/15/21 19:50	03/16/21 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		31 - 143				03/15/21 19:50	03/16/21 13:39	1
2-Fluorobiphenyl	83		43 - 145				03/15/21 19:50	03/16/21 13:39	1
2-Fluorophenol	92		31 - 166				03/15/21 19:50	03/16/21 13:39	1
Nitrobenzene-d5	87		37 - 147				03/15/21 19:50	03/16/21 13:39	1
Phenol-d5	93		30 - 153				03/15/21 19:50	03/16/21 13:39	1
Terphenyl-d14	90		42 - 157				03/15/21 19:50	03/16/21 13:39	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	✳	03/16/21 06:34	03/16/21 18:12	1
Arsenic	11		0.57	0.19	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Barium	84		0.57	0.065	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Beryllium	1.1		0.23	0.053	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Boron	8.3		2.8	0.26	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Cadmium	0.18	B	0.11	0.020	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Calcium	12000		11	1.9	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Chromium	21		0.57	0.28	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Cobalt	14		0.28	0.074	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Copper	27		0.57	0.16	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Iron	24000		11	5.9	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Lead	35		0.28	0.13	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Magnesium	9700		5.7	2.8	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Manganese	370		0.57	0.082	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Nickel	34		0.57	0.17	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Potassium	2400		28	10	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Selenium	<0.57		0.57	0.33	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Silver	0.44		0.28	0.073	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Sodium	580		57	8.4	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Thallium	0.68		0.57	0.28	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Vanadium	28		0.28	0.067	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	1
Zinc	70		1.1	0.50	mg/Kg	✳	03/16/21 06:34	03/16/21 18:12	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		03/17/21 17:03	03/19/21 12:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:03	03/19/21 12:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 12:50	1
Iron	<0.40		0.40	0.20	mg/L		03/17/21 17:03	03/19/21 12:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B02

Lab Sample ID: 500-195896-2

Date Collected: 03/09/21 10:45

Matrix: Solid

Date Received: 03/10/21 11:47

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		03/17/21 17:03	03/19/21 12:50	1
Manganese	0.59		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 09:35	1
Nickel	0.012	J	0.025	0.010	mg/L		03/17/21 17:03	03/19/21 12:50	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		03/17/21 17:06	03/18/21 14:29	1
Barium	0.60		0.50	0.050	mg/L		03/17/21 17:06	03/18/21 14:29	1
Beryllium	0.0097		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 14:29	1
Boron	0.31	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 14:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 14:29	1
Calcium	33	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:08	1
Chromium	0.18		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:29	1
Cobalt	0.051		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:29	1
Iron	210	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:08	1
Lead	0.14		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 14:29	1
Manganese	0.71		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:29	1
Nickel	0.23		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:29	1
Potassium	37		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 14:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 14:29	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:29	1
Zinc	0.60		0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:08	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		03/17/21 17:03	03/18/21 16:47	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		03/17/21 17:06	03/18/21 13:50	1
Thallium	0.0052		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 13:50	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		03/18/21 10:00	03/19/21 09:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0062	mg/Kg	✱	03/17/21 14:40	03/18/21 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	✱	03/11/21 10:41	03/11/21 13:38	1
pH	8.5		0.2	0.2	SU			03/16/21 18:05	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B03

Lab Sample ID: 500-195896-3

Date Collected: 03/09/21 10:55

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 85.7

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	0.00056	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Acetone	0.012	J *1	0.017	0.0073	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Bromomethane	<0.0042	*	0.0042	0.0016	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	✱	03/10/21 17:00	03/14/21 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	03/10/21 17:00	03/14/21 17:03	1
4-Bromofluorobenzene (Surr)	100		75 - 131	03/10/21 17:00	03/14/21 17:03	1
Dibromofluoromethane	99		75 - 126	03/10/21 17:00	03/14/21 17:03	1
Toluene-d8 (Surr)	114		75 - 124	03/10/21 17:00	03/14/21 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	03/15/21 19:50	03/16/21 14:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	03/15/21 19:50	03/16/21 14:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	03/15/21 19:50	03/16/21 14:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	✱	03/15/21 19:50	03/16/21 14:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✱	03/15/21 19:50	03/16/21 14:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B03

Lab Sample ID: 500-195896-3

Date Collected: 03/09/21 10:55

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/15/21 19:50	03/16/21 14:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B03

Lab Sample ID: 500-195896-3

Date Collected: 03/09/21 10:55

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 85.7

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	<0.038		0.038	0.010	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
Phenol	<0.19		0.19	0.086	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	✳	03/15/21 19:50	03/16/21 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		31 - 143				03/15/21 19:50	03/16/21 14:04	1
2-Fluorobiphenyl	86		43 - 145				03/15/21 19:50	03/16/21 14:04	1
2-Fluorophenol	91		31 - 166				03/15/21 19:50	03/16/21 14:04	1
Nitrobenzene-d5	91		37 - 147				03/15/21 19:50	03/16/21 14:04	1
Phenol-d5	92		30 - 153				03/15/21 19:50	03/16/21 14:04	1
Terphenyl-d14	89		42 - 157				03/15/21 19:50	03/16/21 14:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.77	J	1.1	0.22	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Arsenic	13		0.57	0.19	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Barium	42		0.57	0.065	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Beryllium	0.92		0.23	0.053	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Boron	14		2.8	0.27	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Calcium	53000		57	9.7	mg/Kg	✳	03/16/21 06:34	03/19/21 11:37	5
Chromium	16		0.57	0.28	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Cobalt	12		0.28	0.075	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Copper	31		0.57	0.16	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Iron	23000		11	5.9	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Lead	19		0.28	0.13	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Magnesium	25000		5.7	2.8	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Manganese	320		0.57	0.083	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Nickel	32		0.57	0.17	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Potassium	3000		28	10	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Selenium	<0.57		0.57	0.33	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Silver	0.38		0.28	0.073	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Sodium	340		57	8.4	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Thallium	0.83		0.57	0.28	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Vanadium	22		0.28	0.067	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	1
Zinc	76		1.1	0.50	mg/Kg	✳	03/16/21 06:34	03/16/21 18:15	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		03/17/21 17:03	03/19/21 12:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:03	03/19/21 12:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 12:54	1
Iron	0.21	J	0.40	0.20	mg/L		03/17/21 17:03	03/19/21 12:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B03

Lab Sample ID: 500-195896-3

Date Collected: 03/09/21 10:55

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 85.7

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		03/17/21 17:03	03/19/21 12:54	1
Manganese	0.61		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 09:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 12:54	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		03/17/21 17:06	03/18/21 14:32	1
Barium	0.45	J	0.50	0.050	mg/L		03/17/21 17:06	03/18/21 14:32	1
Beryllium	0.0074		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 14:32	1
Boron	0.50	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 14:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 14:32	1
Calcium	44	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:11	1
Chromium	0.14		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:32	1
Cobalt	0.041		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:32	1
Iron	150	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:11	1
Lead	0.078		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 14:32	1
Manganese	0.56		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:32	1
Nickel	0.17		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:32	1
Potassium	33		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 14:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 14:32	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:32	1
Zinc	0.43	J	0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:11	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		03/17/21 17:03	03/18/21 16:49	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		03/17/21 17:06	03/18/21 13:52	1
Thallium	0.0042		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/18/21 10:00	03/19/21 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0059	mg/Kg	✱	03/17/21 14:40	03/18/21 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.14	mg/Kg	✱	03/11/21 10:41	03/11/21 13:39	1
pH	8.6		0.2	0.2	SU			03/16/21 18:07	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B04

Lab Sample ID: 500-195896-4

Date Collected: 03/09/21 11:15

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 84.1

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	☼	03/10/21 17:00	03/14/21 17:29	1
1,1,1,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00055	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Acetone	<0.017	*1	0.017	0.0075	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Bromomethane	<0.0043	*-	0.0043	0.0016	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	03/10/21 17:00	03/14/21 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 134	03/10/21 17:00	03/14/21 17:29	1
4-Bromofluorobenzene (Surr)	104	*3	75 - 131	03/10/21 17:00	03/14/21 17:29	1
Dibromofluoromethane	96		75 - 126	03/10/21 17:00	03/14/21 17:29	1
Toluene-d8 (Surr)	96		75 - 124	03/10/21 17:00	03/14/21 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B04

Lab Sample ID: 500-195896-4

Date Collected: 03/09/21 11:15

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 84.1

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	✱	03/15/21 19:50	03/16/21 17:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Benzo[a]pyrene	0.015	J	0.039	0.0076	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Benzo[b]fluoranthene	0.022	J	0.039	0.0085	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Chrysene	0.020	J	0.039	0.011	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Fluoranthene	0.018	J	0.039	0.0073	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✱	03/15/21 19:50	03/16/21 17:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B04

Lab Sample ID: 500-195896-4

Date Collected: 03/09/21 11:15

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 84.1

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	☼	03/15/21 19:50	03/16/21 17:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
Phenanthrene	0.011	J	0.039	0.0055	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
Pyrene	0.023	J	0.039	0.0078	mg/Kg	☼	03/15/21 19:50	03/16/21 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		31 - 143				03/15/21 19:50	03/16/21 17:20	1
2-Fluorobiphenyl	79		43 - 145				03/15/21 19:50	03/16/21 17:20	1
2-Fluorophenol	85		31 - 166				03/15/21 19:50	03/16/21 17:20	1
Nitrobenzene-d5	84		37 - 147				03/15/21 19:50	03/16/21 17:20	1
Phenol-d5	86		30 - 153				03/15/21 19:50	03/16/21 17:20	1
Terphenyl-d14	83		42 - 157				03/15/21 19:50	03/16/21 17:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.1	0.22	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Arsenic	11		0.57	0.20	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Barium	43		0.57	0.065	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Beryllium	0.88		0.23	0.054	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Boron	13		2.9	0.27	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Cadmium	0.24	B	0.11	0.021	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Calcium	58000		57	9.7	mg/Kg	☼	03/16/21 06:34	03/19/21 11:43	5
Chromium	15		0.57	0.28	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Cobalt	15		0.29	0.075	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Copper	30		0.57	0.16	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Iron	21000		11	6.0	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Lead	22		0.29	0.13	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Magnesium	27000		5.7	2.8	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Manganese	380		0.57	0.083	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Nickel	34		0.57	0.17	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Potassium	2800		29	10	mg/Kg	☼	03/16/21 06:34	03/19/21 11:40	1
Selenium	0.49	J	0.57	0.34	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Silver	0.37		0.29	0.074	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Sodium	540		57	8.5	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Thallium	0.97		0.57	0.29	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Vanadium	20		0.29	0.068	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	1
Zinc	83		1.1	0.50	mg/Kg	☼	03/16/21 06:34	03/16/21 18:25	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		03/17/21 17:03	03/19/21 12:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:03	03/19/21 12:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 12:57	1
Iron	<0.40		0.40	0.20	mg/L		03/17/21 17:03	03/19/21 12:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B04

Lab Sample ID: 500-195896-4

Date Collected: 03/09/21 11:15

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 84.1

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		03/17/21 17:03	03/19/21 12:57	1
Manganese	0.52		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 09:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.091		0.050	0.010	mg/L		03/17/21 17:06	03/18/21 14:44	1
Barium	0.52		0.50	0.050	mg/L		03/17/21 17:06	03/18/21 14:44	1
Beryllium	0.0084		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 14:44	1
Boron	0.70	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 14:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 14:44	1
Calcium	40	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:15	1
Chromium	0.16		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:44	1
Cobalt	0.059		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:44	1
Iron	200	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:15	1
Lead	0.13		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 14:44	1
Manganese	0.72		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:44	1
Nickel	0.22		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:44	1
Potassium	36		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 14:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 14:44	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:44	1
Zinc	0.84		0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:15	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		03/17/21 17:03	03/18/21 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/17/21 17:06	03/18/21 13:54	1
Thallium	0.0056		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 13:54	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		03/18/21 10:00	03/19/21 09:18	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	✱	03/17/21 14:40	03/18/21 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	✱	03/11/21 10:41	03/11/21 13:41	1
pH	8.4		0.2	0.2	SU			03/16/21 18:10	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B05

Lab Sample ID: 500-195896-5

Date Collected: 03/09/21 11:25

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 82.5

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	☼	03/10/21 17:00	03/14/21 17:55	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00065	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Acetone	<0.015	*1	0.015	0.0066	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Bromomethane	<0.0038	*-	0.0038	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Carbon disulfide	<0.0038		0.0038	0.00079	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00067	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Vinyl chloride	<0.0015		0.0015	0.00067	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1
Xylenes, Total	<0.0030		0.0030	0.00049	mg/Kg	☼	03/10/21 17:00	03/14/21 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	03/10/21 17:00	03/14/21 17:55	1
4-Bromofluorobenzene (Surr)	98		75 - 131	03/10/21 17:00	03/14/21 17:55	1
Dibromofluoromethane	94		75 - 126	03/10/21 17:00	03/14/21 17:55	1
Toluene-d8 (Surr)	94		75 - 124	03/10/21 17:00	03/14/21 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	<0.20		0.20	0.043	mg/Kg	☼	03/15/21 19:50	03/16/21 14:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/15/21 19:50	03/16/21 14:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 14:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/15/21 19:50	03/16/21 14:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/15/21 19:50	03/16/21 14:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B05

Lab Sample ID: 500-195896-5

Date Collected: 03/09/21 11:25

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 82.5

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	0.091	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2-Methylnaphthalene	<0.081		0.081	0.0073	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Benzo[a]anthracene	0.0072 J		0.040	0.0054	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Benzo[b]fluoranthene	0.013 J		0.040	0.0086	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Chrysene	0.016 J		0.040	0.011	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Fluoranthene	0.015 J		0.040	0.0074	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✱	03/15/21 19:50	03/16/21 14:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B05

Lab Sample ID: 500-195896-5

Date Collected: 03/09/21 11:25

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 82.5

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	☆	03/15/21 19:50	03/16/21 14:28	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
Phenanthrene	0.0088	J	0.040	0.0056	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
Phenol	<0.20		0.20	0.089	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
Pyrene	0.019	J	0.040	0.0079	mg/Kg	☆	03/15/21 19:50	03/16/21 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		31 - 143				03/15/21 19:50	03/16/21 14:28	1
2-Fluorobiphenyl	93		43 - 145				03/15/21 19:50	03/16/21 14:28	1
2-Fluorophenol	98		31 - 166				03/15/21 19:50	03/16/21 14:28	1
Nitrobenzene-d5	99		37 - 147				03/15/21 19:50	03/16/21 14:28	1
Phenol-d5	106		30 - 153				03/15/21 19:50	03/16/21 14:28	1
Terphenyl-d14	92		42 - 157				03/15/21 19:50	03/16/21 14:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.2	0.23	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Arsenic	6.8		0.60	0.21	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Barium	48		0.60	0.068	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Beryllium	1.0		0.24	0.056	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Boron	17		3.0	0.28	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Cadmium	0.18	B	0.12	0.022	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Calcium	53000		60	10	mg/Kg	☆	03/16/21 06:34	03/19/21 11:56	5
Chromium	20		0.60	0.30	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Cobalt	13		0.30	0.079	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Copper	19		0.60	0.17	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Iron	20000		12	6.2	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Lead	12		0.30	0.14	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Magnesium	22000		6.0	3.0	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Manganese	320		0.60	0.087	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Nickel	34		0.60	0.17	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Potassium	4200		30	11	mg/Kg	☆	03/16/21 06:34	03/19/21 11:53	1
Selenium	0.46	J	0.60	0.35	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Silver	0.32		0.30	0.077	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Sodium	420		60	8.9	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Thallium	0.68		0.60	0.30	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Vanadium	22		0.30	0.071	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	1
Zinc	66		1.2	0.53	mg/Kg	☆	03/16/21 06:34	03/16/21 18:29	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		03/17/21 17:03	03/19/21 13:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:00	1
Iron	0.24	J	0.40	0.20	mg/L		03/17/21 17:03	03/19/21 13:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/21 17:03	03/19/21 13:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B05

Lab Sample ID: 500-195896-5

Date Collected: 03/09/21 11:25

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 09:44	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.036	J	0.050	0.010	mg/L		03/17/21 17:06	03/18/21 14:47	1
Barium	0.39	J	0.50	0.050	mg/L		03/17/21 17:06	03/18/21 14:47	1
Beryllium	0.0057		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 14:47	1
Boron	0.65	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 14:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 14:47	1
Calcium	50	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:18	1
Chromium	0.12		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:47	1
Cobalt	0.034		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:47	1
Iron	120	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:18	1
Lead	0.070		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 14:47	1
Manganese	0.53		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:47	1
Nickel	0.15		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:47	1
Potassium	31		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 14:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 14:47	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:47	1
Zinc	0.35	J	0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		03/17/21 17:03	03/18/21 16:53	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		03/17/21 17:06	03/18/21 13:56	1
Thallium	0.0027		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/18/21 10:00	03/19/21 09:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0064	mg/Kg	☆	03/17/21 14:40	03/18/21 08:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	☆	03/11/21 10:41	03/11/21 13:43	1
pH	7.8		0.2	0.2	SU			03/16/21 18:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B06

Lab Sample ID: 500-195896-6

Date Collected: 03/09/21 11:30

Matrix: Solid

Date Received: 03/10/21 11:47

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	<0.0017		0.0017	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Acetone	<0.017	*1	0.017	0.0076	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Bromomethane	<0.0044	*-	0.0044	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00078	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	03/10/21 17:00	03/14/21 18:21	1
4-Bromofluorobenzene (Surr)	98		75 - 131	03/10/21 17:00	03/14/21 18:21	1
Dibromofluoromethane	108		75 - 126	03/10/21 17:00	03/14/21 18:21	1
Toluene-d8 (Surr)	94		75 - 124	03/10/21 17:00	03/14/21 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/15/21 19:50	03/16/21 14:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/15/21 19:50	03/16/21 14:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 14:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/15/21 19:50	03/16/21 14:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/15/21 19:50	03/16/21 14:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B06

Lab Sample ID: 500-195896-6

Date Collected: 03/09/21 11:30

Matrix: Solid

Date Received: 03/10/21 11:47

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	✳	03/15/21 19:50	03/16/21 14:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2-Methylnaphthalene	0.012	J	0.081	0.0074	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Anthracene	0.011	J	0.040	0.0067	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Benzo[a]anthracene	0.051		0.040	0.0054	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Benzo[a]pyrene	0.050		0.040	0.0078	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Benzo[b]fluoranthene	0.070		0.040	0.0087	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Benzo[g,h,i]perylene	0.031	J	0.040	0.013	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Benzo[k]fluoranthene	0.031	J	0.040	0.012	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Chrysene	0.065		0.040	0.011	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Fluoranthene	0.11		0.040	0.0075	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Fluorene	0.0071	J	0.040	0.0057	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✳	03/15/21 19:50	03/16/21 14:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B06

Lab Sample ID: 500-195896-6

Date Collected: 03/09/21 11:30

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.026	J	0.040	0.010	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
Phenanthrene	0.069		0.040	0.0056	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
Phenol	<0.20		0.20	0.089	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
Pyrene	0.097		0.040	0.0080	mg/Kg	✱	03/15/21 19:50	03/16/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143				03/15/21 19:50	03/16/21 14:53	1
2-Fluorobiphenyl	90		43 - 145				03/15/21 19:50	03/16/21 14:53	1
2-Fluorophenol	95		31 - 166				03/15/21 19:50	03/16/21 14:53	1
Nitrobenzene-d5	98		37 - 147				03/15/21 19:50	03/16/21 14:53	1
Phenol-d5	97		30 - 153				03/15/21 19:50	03/16/21 14:53	1
Terphenyl-d14	91		42 - 157				03/15/21 19:50	03/16/21 14:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.2	0.22	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Arsenic	7.0		0.58	0.20	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Barium	47		0.58	0.066	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Beryllium	0.94		0.23	0.054	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Boron	17		2.9	0.27	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Cadmium	0.21	B	0.12	0.021	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Calcium	58000		58	9.8	mg/Kg	✱	03/16/21 06:34	03/19/21 12:03	5
Chromium	19		0.58	0.29	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Cobalt	16		0.29	0.075	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Copper	23		0.58	0.16	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Iron	20000		12	6.0	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Lead	16		0.29	0.13	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Magnesium	24000		5.8	2.9	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Manganese	400		0.58	0.084	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Nickel	34		0.58	0.17	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Potassium	3800		29	10	mg/Kg	✱	03/16/21 06:34	03/19/21 12:00	1
Selenium	0.49	J	0.58	0.34	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Silver	0.37		0.29	0.074	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Sodium	420		58	8.5	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Thallium	0.91		0.58	0.29	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Vanadium	23		0.29	0.068	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	1
Zinc	73		1.2	0.51	mg/Kg	✱	03/16/21 06:34	03/16/21 18:32	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		03/17/21 17:03	03/19/21 13:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/21 17:03	03/19/21 13:03	1
Manganese	4.0		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 09:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B06

Lab Sample ID: 500-195896-6

Date Collected: 03/09/21 11:30

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.050	0.010	mg/L		03/17/21 17:06	03/18/21 14:50	1
Barium	0.28	J	0.50	0.050	mg/L		03/17/21 17:06	03/18/21 14:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 14:50	1
Boron	0.47	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 14:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 14:50	1
Calcium	29	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:21	1
Chromium	0.077		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:50	1
Cobalt	0.028		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:50	1
Iron	70	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:21	1
Lead	0.043		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 14:50	1
Manganese	0.53		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:50	1
Nickel	0.089		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:50	1
Potassium	24		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 14:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 14:50	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:50	1
Zinc	0.22	J	0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:21	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		03/17/21 17:03	03/18/21 16:56	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		03/17/21 17:06	03/18/21 13:58	1
Thallium	0.0023		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/18/21 10:00	03/19/21 09:23	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	✱	03/17/21 14:40	03/18/21 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	✱	03/11/21 10:41	03/11/21 13:45	1
pH	7.7		0.2	0.2	SU			03/16/21 18:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B07

Lab Sample ID: 500-195896-7

Date Collected: 03/09/21 11:45

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 86.5

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	✱	03/10/21 17:00	03/15/21 13:27	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Acetone	<0.016		0.016	0.0069	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Chloroform	0.0021		0.0016	0.00055	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	✱	03/10/21 17:00	03/15/21 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	03/10/21 17:00	03/15/21 13:27	1
4-Bromofluorobenzene (Surr)	102		75 - 131	03/10/21 17:00	03/15/21 13:27	1
Dibromofluoromethane	98		75 - 126	03/10/21 17:00	03/15/21 13:27	1
Toluene-d8 (Surr)	98		75 - 124	03/10/21 17:00	03/15/21 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	03/15/21 19:50	03/16/21 16:06	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	03/15/21 19:50	03/16/21 16:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	03/15/21 19:50	03/16/21 16:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✱	03/15/21 19:50	03/16/21 16:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	03/15/21 19:50	03/16/21 16:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B07

Lab Sample ID: 500-195896-7

Date Collected: 03/09/21 11:45

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 86.5

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	✳	03/15/21 19:50	03/16/21 16:06	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2-Methylnaphthalene	0.0075	J	0.077	0.0070	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Benzo[a]anthracene	0.021	J	0.038	0.0052	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Benzo[a]pyrene	0.031	J	0.038	0.0074	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Benzo[b]fluoranthene	0.042		0.038	0.0083	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Benzo[g,h,i]perylene	0.021	J	0.038	0.012	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Benzo[k]fluoranthene	0.011	J	0.038	0.011	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Chrysene	0.034	J	0.038	0.010	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Fluoranthene	0.037	J	0.038	0.0071	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	03/15/21 19:50	03/16/21 16:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B07

Lab Sample ID: 500-195896-7

Date Collected: 03/09/21 11:45

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 86.5

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	0.038	0.0099	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
Phenanthrene	0.031	J	0.038	0.0053	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
Pyrene	0.044		0.038	0.0076	mg/Kg	☼	03/15/21 19:50	03/16/21 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143				03/15/21 19:50	03/16/21 16:06	1
2-Fluorobiphenyl	84		43 - 145				03/15/21 19:50	03/16/21 16:06	1
2-Fluorophenol	90		31 - 166				03/15/21 19:50	03/16/21 16:06	1
Nitrobenzene-d5	90		37 - 147				03/15/21 19:50	03/16/21 16:06	1
Phenol-d5	92		30 - 153				03/15/21 19:50	03/16/21 16:06	1
Terphenyl-d14	86		42 - 157				03/15/21 19:50	03/16/21 16:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.1	0.21	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Arsenic	9.7		0.55	0.19	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Barium	41		0.55	0.062	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Beryllium	0.80		0.22	0.051	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Boron	13		2.7	0.25	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Calcium	67000		55	9.3	mg/Kg	☼	03/16/21 06:34	03/19/21 12:09	5
Chromium	14		0.55	0.27	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Cobalt	13		0.27	0.072	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Copper	27		0.55	0.15	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Iron	18000		11	5.7	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Lead	22		0.27	0.13	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Magnesium	32000		5.5	2.7	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Manganese	350		0.55	0.079	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Nickel	32		0.55	0.16	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Potassium	2700		27	9.7	mg/Kg	☼	03/16/21 06:34	03/19/21 12:06	1
Selenium	0.48	J	0.55	0.32	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Silver	0.29		0.27	0.070	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Sodium	930		55	8.1	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Thallium	0.99		0.55	0.27	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Vanadium	18		0.27	0.064	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1
Zinc	70		1.1	0.48	mg/Kg	☼	03/16/21 06:34	03/16/21 18:35	1

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		03/17/21 17:06	03/18/21 14:54	1
Barium	<0.50		0.50	0.050	mg/L		03/17/21 17:06	03/18/21 14:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 14:54	1
Boron	0.34	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 14:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B07

Lab Sample ID: 500-195896-7

Date Collected: 03/09/21 11:45

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 14:54	1
Calcium	40	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:54	1
Iron	0.25	J B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 14:54	1
Manganese	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:54	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:54	1
Potassium	0.99	J	2.5	0.50	mg/L		03/17/21 17:06	03/18/21 14:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 14:54	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:54	1
Zinc	0.021	J	0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:24	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		03/17/21 17:06	03/18/21 14:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/18/21 10:00	03/19/21 09:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0061	mg/Kg	⊛	03/17/21 14:40	03/18/21 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	⊛	03/11/21 10:41	03/11/21 13:46	1
pH	7.5		0.2	0.2	SU			03/16/21 18:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B08

Lab Sample ID: 500-195896-8

Date Collected: 03/09/21 12:00

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 86.8

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	☼	03/10/21 17:00	03/14/21 19:12	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00065	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Acetone	0.0087	J *1	0.015	0.0066	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Bromomethane	<0.0038	*	0.0038	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Carbon disulfide	<0.0038		0.0038	0.00078	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Chloroform	<0.0015		0.0015	0.00052	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Ethylbenzene	<0.0015		0.0015	0.00072	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Tetrachloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00067	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Vinyl chloride	<0.0015		0.0015	0.00067	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	03/10/21 17:00	03/14/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/10/21 17:00	03/14/21 19:12	1
4-Bromofluorobenzene (Surr)	106		75 - 131	03/10/21 17:00	03/14/21 19:12	1
Dibromofluoromethane	100		75 - 126	03/10/21 17:00	03/14/21 19:12	1
Toluene-d8 (Surr)	104		75 - 124	03/10/21 17:00	03/14/21 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B08

Lab Sample ID: 500-195896-8

Date Collected: 03/09/21 12:00

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 86.8

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	0.087	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2-Methylnaphthalene	0.012	J	0.077	0.0070	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Anthracene	0.015	J	0.038	0.0064	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Benzo[a]anthracene	0.052		0.038	0.0051	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Benzo[a]pyrene	0.049		0.038	0.0074	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Benzo[b]fluoranthene	0.075		0.038	0.0082	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Benzo[g,h,i]perylene	0.026	J	0.038	0.012	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Benzo[k]fluoranthene	0.028	J	0.038	0.011	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Carbazole	<0.19		0.19	0.095	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Chrysene	0.068		0.038	0.010	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Fluoranthene	0.10		0.038	0.0071	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Fluorene	0.0096	J	0.038	0.0053	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	03/15/21 19:50	03/16/21 17:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B08

Lab Sample ID: 500-195896-8

Date Collected: 03/09/21 12:00

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 86.8

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	0.020	J	0.038	0.0099	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
Phenanthrene	0.070		0.038	0.0053	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
Pyrene	0.11		0.038	0.0076	mg/Kg	☼	03/15/21 19:50	03/16/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143				03/15/21 19:50	03/16/21 17:44	1
2-Fluorobiphenyl	84		43 - 145				03/15/21 19:50	03/16/21 17:44	1
2-Fluorophenol	92		31 - 166				03/15/21 19:50	03/16/21 17:44	1
Nitrobenzene-d5	92		37 - 147				03/15/21 19:50	03/16/21 17:44	1
Phenol-d5	95		30 - 153				03/15/21 19:50	03/16/21 17:44	1
Terphenyl-d14	94		42 - 157				03/15/21 19:50	03/16/21 17:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.1	0.22	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Arsenic	8.3		0.56	0.19	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Barium	52		0.56	0.064	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Beryllium	0.83		0.22	0.052	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Boron	13		2.8	0.26	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Cadmium	0.18	B	0.11	0.020	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Calcium	52000		56	9.5	mg/Kg	☼	03/16/21 06:34	03/19/21 12:16	5
Chromium	15		0.56	0.28	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Cobalt	13		0.28	0.074	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Copper	26		0.56	0.16	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Iron	19000		11	5.8	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Lead	23		0.28	0.13	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Magnesium	24000		5.6	2.8	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Manganese	290		0.56	0.081	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Nickel	32		0.56	0.16	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Potassium	2700		28	9.9	mg/Kg	☼	03/16/21 06:34	03/19/21 12:12	1
Selenium	0.34	J	0.56	0.33	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Silver	0.32		0.28	0.072	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Sodium	1100		56	8.3	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Thallium	0.89		0.56	0.28	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Vanadium	19		0.28	0.066	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	1
Zinc	65		1.1	0.49	mg/Kg	☼	03/16/21 06:34	03/16/21 18:39	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		03/17/21 17:03	03/19/21 13:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:10	1
Iron	<0.40		0.40	0.20	mg/L		03/17/21 17:03	03/19/21 13:10	1
Lead	0.010		0.0075	0.0075	mg/L		03/17/21 17:03	03/19/21 13:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B08

Lab Sample ID: 500-195896-8

Date Collected: 03/09/21 12:00

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.2		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 09:54	1
Nickel	0.022	J	0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.036	J	0.050	0.010	mg/L		03/17/21 17:06	03/18/21 14:57	1
Barium	0.41	J	0.50	0.050	mg/L		03/17/21 17:06	03/18/21 14:57	1
Beryllium	0.0055		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 14:57	1
Boron	0.48	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 14:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 14:57	1
Calcium	43	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:27	1
Chromium	0.11		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:57	1
Cobalt	0.064		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:57	1
Iron	110	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:27	1
Lead	0.14		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 14:57	1
Manganese	1.2		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:57	1
Nickel	0.15		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:57	1
Potassium	29		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 14:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 14:57	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 14:57	1
Zinc	0.35	J	0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:27	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		03/17/21 17:03	03/18/21 17:00	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		03/17/21 17:06	03/18/21 14:02	1
Thallium	0.0026		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/18/21 10:00	03/19/21 09:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0061	mg/Kg	☆	03/17/21 14:40	03/18/21 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.14	mg/Kg	☆	03/11/21 10:41	03/11/21 13:48	1
pH	8.0		0.2	0.2	SU			03/16/21 18:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B09

Lab Sample ID: 500-195896-9

Date Collected: 03/09/21 12:10

Matrix: Solid

Date Received: 03/10/21 11:47

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	<0.0019		0.0019	0.00063	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Acetone	<0.019	*1	0.019	0.0082	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Bromomethane	<0.0047	*-	0.0047	0.0018	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	03/10/21 17:00	03/14/21 19:38	1
4-Bromofluorobenzene (Surr)	100		75 - 131	03/10/21 17:00	03/14/21 19:38	1
Dibromofluoromethane	91		75 - 126	03/10/21 17:00	03/14/21 19:38	1
Toluene-d8 (Surr)	91		75 - 124	03/10/21 17:00	03/14/21 19:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B09

Lab Sample ID: 500-195896-9

Date Collected: 03/09/21 12:10

Matrix: Solid

Date Received: 03/10/21 11:47

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	☼	03/15/21 19:50	03/16/21 15:42	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2-Methylnaphthalene	0.011	J	0.082	0.0075	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Acenaphthene	0.019	J	0.040	0.0073	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Acenaphthylene	0.0079	J	0.040	0.0054	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Anthracene	0.066		0.040	0.0068	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Benzo[a]anthracene	0.29		0.040	0.0055	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Benzo[a]pyrene	0.28		0.040	0.0079	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Benzo[b]fluoranthene	0.38		0.040	0.0088	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Benzo[g,h,i]perylene	0.11		0.040	0.013	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Benzo[k]fluoranthene	0.15		0.040	0.012	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Chrysene	0.31		0.040	0.011	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Dibenz(a,h)anthracene	0.042		0.040	0.0078	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Fluoranthene	0.55		0.040	0.0075	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Fluorene	0.018	J	0.040	0.0057	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	03/15/21 19:50	03/16/21 15:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B09

Lab Sample ID: 500-195896-9

Date Collected: 03/09/21 12:10

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.12		0.040	0.011	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
Isophorone	<0.20		0.20	0.046	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
Naphthalene	0.014	J	0.040	0.0062	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
Phenanthrene	0.29		0.040	0.0057	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
Phenol	<0.20		0.20	0.090	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
Pyrene	0.51		0.040	0.0081	mg/Kg	✱	03/15/21 19:50	03/16/21 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		31 - 143				03/15/21 19:50	03/16/21 15:42	1
2-Fluorobiphenyl	73		43 - 145				03/15/21 19:50	03/16/21 15:42	1
2-Fluorophenol	82		31 - 166				03/15/21 19:50	03/16/21 15:42	1
Nitrobenzene-d5	77		37 - 147				03/15/21 19:50	03/16/21 15:42	1
Phenol-d5	85		30 - 153				03/15/21 19:50	03/16/21 15:42	1
Terphenyl-d14	85		42 - 157				03/15/21 19:50	03/16/21 15:42	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	✱	03/16/21 06:34	03/16/21 18:42	1
Arsenic	9.4		0.59	0.20	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Barium	69		0.59	0.067	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Beryllium	0.91		0.24	0.055	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Boron	10		2.9	0.27	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Cadmium	0.21	B	0.12	0.021	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Calcium	26000		12	2.0	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Chromium	18		0.59	0.29	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Cobalt	14		0.29	0.077	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Copper	27		0.59	0.16	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Iron	21000		12	6.1	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Lead	37		0.29	0.14	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Magnesium	18000		5.9	2.9	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Manganese	390		0.59	0.085	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Nickel	33		0.59	0.17	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Potassium	2500		29	10	mg/Kg	✱	03/16/21 06:34	03/19/21 12:19	1
Selenium	<0.59		0.59	0.35	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Silver	0.39		0.29	0.076	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Sodium	1200		59	8.7	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Thallium	0.81		0.59	0.29	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Vanadium	24		0.29	0.069	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	1
Zinc	75		1.2	0.52	mg/Kg	✱	03/16/21 06:34	03/16/21 18:42	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		03/17/21 17:03	03/19/21 13:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:03	03/22/21 10:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:20	1
Iron	0.24	J	0.40	0.20	mg/L		03/17/21 17:03	03/22/21 10:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B09

Lab Sample ID: 500-195896-9

Date Collected: 03/09/21 12:10

Matrix: Solid

Date Received: 03/10/21 11:47

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		03/17/21 17:03	03/22/21 10:04	1
Manganese	0.27		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 10:04	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.081		0.050	0.010	mg/L		03/17/21 17:06	03/18/21 15:00	1
Barium	0.74		0.50	0.050	mg/L		03/17/21 17:06	03/18/21 15:00	1
Beryllium	0.0083		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 15:00	1
Boron	0.45	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 15:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 15:00	1
Calcium	37	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:37	1
Chromium	0.16		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:00	1
Cobalt	0.048		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:00	1
Iron	190	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:37	1
Lead	0.24		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 15:00	1
Manganese	0.61		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:00	1
Nickel	0.20		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:00	1
Potassium	27		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 15:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 15:00	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:00	1
Zinc	0.67		0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:37	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		03/17/21 17:03	03/18/21 17:06	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		03/17/21 17:06	03/18/21 14:08	1
Thallium	0.0046		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 14:08	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		03/18/21 10:00	03/19/21 09:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0062	mg/Kg	✱	03/17/21 14:40	03/18/21 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	✱	03/11/21 10:41	03/11/21 13:50	1
pH	8.2		0.2	0.2	SU			03/16/21 18:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B10

Lab Sample ID: 500-195896-10

Date Collected: 03/09/21 12:20

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.00055	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Acetone	<0.016		0.016	0.0071	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	✱	03/10/21 17:00	03/15/21 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	03/10/21 17:00	03/15/21 13:53	1
4-Bromofluorobenzene (Surr)	94		75 - 131	03/10/21 17:00	03/15/21 13:53	1
Dibromofluoromethane	101		75 - 126	03/10/21 17:00	03/15/21 13:53	1
Toluene-d8 (Surr)	93		75 - 124	03/10/21 17:00	03/15/21 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	✱	03/15/21 19:50	03/16/21 18:09	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✱	03/15/21 19:50	03/16/21 18:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✱	03/15/21 19:50	03/16/21 18:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	03/15/21 19:50	03/16/21 18:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	03/15/21 19:50	03/16/21 18:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B10

Lab Sample ID: 500-195896-10

Date Collected: 03/09/21 12:20

Matrix: Solid

Date Received: 03/10/21 11:47

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	<0.40		0.40	0.091	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2,4-Dichlorophenol	<0.40		0.40	0.094	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Acenaphthene	<0.040		0.040	0.0071	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Acenaphthylene	0.0055	J	0.040	0.0052	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Anthracene	0.019	J	0.040	0.0066	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Benzo[a]anthracene	0.11		0.040	0.0054	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Benzo[a]pyrene	0.12		0.040	0.0077	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Benzo[b]fluoranthene	0.20		0.040	0.0086	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Benzo[g,h,i]perylene	0.049		0.040	0.013	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Benzo[k]fluoranthene	0.070		0.040	0.012	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Chrysene	0.14		0.040	0.011	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Dibenz(a,h)anthracene	0.016	J	0.040	0.0077	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Fluoranthene	0.22		0.040	0.0074	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 18:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B10

Lab Sample ID: 500-195896-10

Date Collected: 03/09/21 12:20

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.048		0.040	0.010	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
Phenanthrene	0.099		0.040	0.0055	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
Phenol	<0.20		0.20	0.088	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
Pyrene	0.25		0.040	0.0079	mg/Kg	☆	03/15/21 19:50	03/16/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		31 - 143				03/15/21 19:50	03/16/21 18:09	1
2-Fluorobiphenyl	77		43 - 145				03/15/21 19:50	03/16/21 18:09	1
2-Fluorophenol	85		31 - 166				03/15/21 19:50	03/16/21 18:09	1
Nitrobenzene-d5	80		37 - 147				03/15/21 19:50	03/16/21 18:09	1
Phenol-d5	90		30 - 153				03/15/21 19:50	03/16/21 18:09	1
Terphenyl-d14	101		42 - 157				03/15/21 19:50	03/16/21 18:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.84	J	1.2	0.23	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Arsenic	11		0.59	0.20	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Barium	72		0.59	0.067	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Beryllium	0.92		0.23	0.055	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Boron	12		2.9	0.27	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Cadmium	0.27	B	0.12	0.021	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Calcium	54000		59	9.9	mg/Kg	☆	03/16/21 06:34	03/19/21 12:32	5
Chromium	17		0.59	0.29	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Cobalt	14		0.29	0.077	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Copper	28		0.59	0.16	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Iron	21000		12	6.1	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Lead	59		0.29	0.14	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Magnesium	25000		5.9	2.9	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Manganese	410		0.59	0.085	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Nickel	32		0.59	0.17	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Potassium	2700		29	10	mg/Kg	☆	03/16/21 06:34	03/19/21 12:22	1
Selenium	<0.59		0.59	0.34	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Silver	0.36		0.29	0.076	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Sodium	1900		59	8.7	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Thallium	0.61		0.59	0.29	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Vanadium	22		0.29	0.069	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	1
Zinc	91		1.2	0.51	mg/Kg	☆	03/16/21 06:34	03/16/21 18:46	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		03/17/21 17:03	03/19/21 13:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:03	03/22/21 10:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:23	1
Iron	0.28	J	0.40	0.20	mg/L		03/17/21 17:03	03/22/21 10:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B10

Lab Sample ID: 500-195896-10

Date Collected: 03/09/21 12:20

Matrix: Solid

Date Received: 03/10/21 11:47

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		03/17/21 17:03	03/22/21 10:08	1
Manganese	0.54		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 10:08	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.050	0.010	mg/L		03/17/21 17:06	03/18/21 15:03	1
Barium	0.97		0.50	0.050	mg/L		03/17/21 17:06	03/18/21 15:03	1
Beryllium	0.013		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 15:03	1
Boron	0.74	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 15:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 15:03	1
Calcium	47	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:40	1
Chromium	0.24		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:03	1
Cobalt	0.085		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:03	1
Iron	290	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:40	1
Lead	0.38		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 15:03	1
Manganese	1.1		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:03	1
Nickel	0.31		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:03	1
Potassium	43		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 15:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 15:03	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:03	1
Zinc	1.0		0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:40	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		03/17/21 17:03	03/18/21 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/17/21 17:06	03/18/21 14:10	1
Thallium	0.0064		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 14:10	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		03/18/21 10:00	03/19/21 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	F1	0.019	0.0062	mg/Kg	✱	03/17/21 14:40	03/18/21 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	✱	03/11/21 10:41	03/11/21 13:52	1
pH	9.0		0.2	0.2	SU			03/16/21 18:30	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B10 Dup

Lab Sample ID: 500-195896-11

Date Collected: 03/09/21 12:30

Matrix: Solid

Date Received: 03/10/21 11:47

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	<0.0017		0.0017	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Acetone	<0.017	*1	0.017	0.0076	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Bromomethane	<0.0044	*-	0.0044	0.0016	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	03/10/21 17:00	03/14/21 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	03/10/21 17:00	03/14/21 20:30	1
4-Bromofluorobenzene (Surr)	98		75 - 131	03/10/21 17:00	03/14/21 20:30	1
Dibromofluoromethane	118		75 - 126	03/10/21 17:00	03/14/21 20:30	1
Toluene-d8 (Surr)	93		75 - 124	03/10/21 17:00	03/14/21 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	0.043	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B10 Dup

Lab Sample ID: 500-195896-11

Date Collected: 03/09/21 12:30

Matrix: Solid

Date Received: 03/10/21 11:47

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	<0.40		0.40	0.091	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Acenaphthylene	0.0064	J	0.040	0.0052	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Anthracene	0.014	J	0.040	0.0067	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Benzo[a]anthracene	0.075		0.040	0.0054	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Benzo[a]pyrene	0.11		0.040	0.0077	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Benzo[b]fluoranthene	0.14		0.040	0.0086	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Benzo[g,h,i]perylene	0.047		0.040	0.013	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Benzo[k]fluoranthene	0.046		0.040	0.012	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Chrysene	0.086		0.040	0.011	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Dibenz(a,h)anthracene	0.013	J	0.040	0.0077	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Fluoranthene	0.11		0.040	0.0074	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✱	03/15/21 19:50	03/16/21 16:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B10 Dup

Lab Sample ID: 500-195896-11

Date Collected: 03/09/21 12:30

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.047		0.040	0.010	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
Phenanthrene	0.043		0.040	0.0055	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
Pyrene	0.12		0.040	0.0079	mg/Kg	☼	03/15/21 19:50	03/16/21 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		31 - 143				03/15/21 19:50	03/16/21 16:31	1
2-Fluorobiphenyl	69		43 - 145				03/15/21 19:50	03/16/21 16:31	1
2-Fluorophenol	77		31 - 166				03/15/21 19:50	03/16/21 16:31	1
Nitrobenzene-d5	72		37 - 147				03/15/21 19:50	03/16/21 16:31	1
Phenol-d5	82		30 - 153				03/15/21 19:50	03/16/21 16:31	1
Terphenyl-d14	98		42 - 157				03/15/21 19:50	03/16/21 16:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.1	0.22	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Arsenic	10		0.57	0.20	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Barium	73		0.57	0.065	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Beryllium	0.92		0.23	0.054	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Boron	7.1		2.9	0.27	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Cadmium	0.15	B	0.11	0.021	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Calcium	12000		11	1.9	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Chromium	17		0.57	0.28	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Cobalt	12		0.29	0.075	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Copper	23		0.57	0.16	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Iron	20000		11	6.0	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Lead	26		0.29	0.13	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Magnesium	8400		5.7	2.8	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Manganese	340		0.57	0.083	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Nickel	27		0.57	0.17	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Potassium	2100		29	10	mg/Kg	☼	03/16/21 06:34	03/19/21 12:35	1
Selenium	0.40	J	0.57	0.34	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Silver	0.43		0.29	0.074	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Sodium	1800		57	8.5	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Thallium	0.77		0.57	0.29	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Vanadium	26		0.29	0.068	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	1
Zinc	66		1.1	0.50	mg/Kg	☼	03/16/21 06:34	03/16/21 18:50	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		03/17/21 17:03	03/19/21 13:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:03	03/22/21 10:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:26	1
Iron	<0.40		0.40	0.20	mg/L		03/17/21 17:03	03/22/21 10:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B10 Dup

Lab Sample ID: 500-195896-11

Date Collected: 03/09/21 12:30

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 83.2

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		03/17/21 17:03	03/22/21 10:11	1
Manganese	0.66		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 10:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:26	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		03/17/21 17:06	03/18/21 15:06	1
Barium	0.79		0.50	0.050	mg/L		03/17/21 17:06	03/18/21 15:06	1
Beryllium	0.0098		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 15:06	1
Boron	0.53	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 15:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 15:06	1
Calcium	33	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:43	1
Chromium	0.19		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:06	1
Cobalt	0.062		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:06	1
Iron	230	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:43	1
Lead	0.16		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 15:06	1
Manganese	0.94		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:06	1
Nickel	0.24		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:06	1
Potassium	27		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 15:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 15:06	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:06	1
Zinc	0.65		0.50	0.020	mg/L		03/17/21 17:06	03/19/21 10:43	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		03/17/21 17:03	03/18/21 17:10	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		03/17/21 17:06	03/18/21 14:12	1
Thallium	0.0059		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 14:12	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		03/18/21 10:00	03/19/21 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.018	0.0060	mg/Kg	✱	03/17/21 14:40	03/18/21 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	✱	03/11/21 10:41	03/11/21 14:32	1
pH	7.5		0.2	0.2	SU			03/16/21 18:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B11

Lab Sample ID: 500-195896-13

Date Collected: 03/09/21 12:40

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
2-Butanone (MEK)	0.0046		0.0045	0.0020	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Acetone	0.018	*1	0.018	0.0079	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Bromomethane	<0.0045	*	0.0045	0.0017	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Carbon disulfide	<0.0045		0.0045	0.00095	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
cis-1,3-Dichloropropane	<0.0018		0.0018	0.00055	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
trans-1,3-Dichloropropane	<0.0018		0.0018	0.00064	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	03/10/21 17:00	03/14/21 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	03/10/21 17:00	03/14/21 21:21	1
4-Bromofluorobenzene (Surr)	97		75 - 131	03/10/21 17:00	03/14/21 21:21	1
Dibromofluoromethane	98		75 - 126	03/10/21 17:00	03/14/21 21:21	1
Toluene-d8 (Surr)	105		75 - 124	03/10/21 17:00	03/14/21 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B11

Lab Sample ID: 500-195896-13

Date Collected: 03/09/21 12:40

Matrix: Solid

Date Received: 03/10/21 11:47

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	✳	03/15/21 19:50	03/17/21 05:35	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2-Methylnaphthalene	0.039	J	0.080	0.0073	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Acenaphthene	0.066		0.039	0.0071	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Acenaphthylene	0.026	J	0.039	0.0052	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Anthracene	0.13		0.039	0.0066	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Benzo[a]anthracene	0.36		0.039	0.0053	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Benzo[a]pyrene	0.46		0.039	0.0076	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Benzo[b]fluoranthene	0.68		0.039	0.0085	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Benzo[g,h,i]perylene	0.16		0.039	0.013	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Benzo[k]fluoranthene	0.27		0.039	0.012	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Bis(2-ethylhexyl) phthalate	0.14	J	0.20	0.072	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Chrysene	0.43		0.039	0.011	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Dibenz(a,h)anthracene	0.042		0.039	0.0076	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Fluoranthene	0.91		0.039	0.0073	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Fluorene	0.074		0.039	0.0055	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	03/15/21 19:50	03/17/21 05:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B11

Lab Sample ID: 500-195896-13

Date Collected: 03/09/21 12:40

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.17		0.039	0.010	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
Naphthalene	0.036	J	0.039	0.0061	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
Phenanthrene	0.56		0.039	0.0055	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
Pyrene	0.90		0.039	0.0078	mg/Kg	☼	03/15/21 19:50	03/17/21 05:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		31 - 143				03/15/21 19:50	03/17/21 05:35	1
2-Fluorobiphenyl	93		43 - 145				03/15/21 19:50	03/17/21 05:35	1
2-Fluorophenol	113		31 - 166				03/15/21 19:50	03/17/21 05:35	1
Nitrobenzene-d5	77		37 - 147				03/15/21 19:50	03/17/21 05:35	1
Phenol-d5	97		30 - 153				03/15/21 19:50	03/17/21 05:35	1
Terphenyl-d14	131		42 - 157				03/15/21 19:50	03/17/21 05:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.1	0.22	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Arsenic	5.5		0.56	0.19	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Barium	40		0.56	0.064	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Beryllium	0.59		0.22	0.052	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Boron	12		2.8	0.26	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Cadmium	0.43	B	0.11	0.020	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Calcium	150000		56	9.5	mg/Kg	☼	03/16/21 06:34	03/19/21 12:42	5
Chromium	14		0.56	0.28	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Cobalt	5.5		0.28	0.073	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Copper	29		0.56	0.16	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Iron	17000		56	29	mg/Kg	☼	03/16/21 06:34	03/19/21 12:42	5
Lead	51		0.28	0.13	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Magnesium	89000		28	14	mg/Kg	☼	03/16/21 06:34	03/19/21 12:42	5
Manganese	320		0.56	0.081	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Nickel	17		0.56	0.16	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Potassium	1800		28	9.9	mg/Kg	☼	03/16/21 06:34	03/19/21 12:38	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Silver	0.15	J	0.28	0.072	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Sodium	1100		56	8.3	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Thallium	0.66		0.56	0.28	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Vanadium	13		0.28	0.066	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1
Zinc	100		1.1	0.49	mg/Kg	☼	03/16/21 06:34	03/16/21 18:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.74		0.40	0.20	mg/L		03/17/21 17:03	03/22/21 10:14	1
Lead	0.64		0.0075	0.0075	mg/L		03/17/21 17:03	03/22/21 10:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B11

Lab Sample ID: 500-195896-13

Date Collected: 03/09/21 12:40

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 83.8

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		03/17/21 17:06	03/18/21 15:09	1
Barium	0.15	J	0.50	0.050	mg/L		03/17/21 17:06	03/18/21 15:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 15:09	1
Boron	0.61	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 15:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 15:09	1
Calcium	20	B	2.5	0.50	mg/L		03/17/21 17:06	03/19/21 10:46	1
Chromium	0.020	J	0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:09	1
Iron	16	B	0.40	0.20	mg/L		03/17/21 17:06	03/19/21 10:46	1
Lead	0.27		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 15:09	1
Manganese	0.13		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:09	1
Nickel	0.018	J	0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:09	1
Potassium	6.3		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 15:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 15:09	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:09	1
Zinc	0.11	J	0.50	0.020	mg/L		03/17/21 17:06	03/19/21 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		03/17/21 17:06	03/18/21 14:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/18/21 10:00	03/19/21 09:44	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	⊛	03/17/21 14:40	03/18/21 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	⊛	03/11/21 10:41	03/11/21 14:37	1
pH	8.1		0.2	0.2	SU			03/16/21 18:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B14

Lab Sample ID: 500-195896-16

Date Collected: 03/09/21 13:15

Matrix: Solid

Date Received: 03/10/21 11:47

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	<0.0018		0.0018	0.00059	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
2-Butanone (MEK)	0.0024	J	0.0044	0.0020	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Acetone	0.016	J	0.018	0.0077	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✱	03/10/21 17:00	03/15/21 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	03/10/21 17:00	03/15/21 14:45	1
4-Bromofluorobenzene (Surr)	88		75 - 131	03/10/21 17:00	03/15/21 14:45	1
Dibromofluoromethane	97		75 - 126	03/10/21 17:00	03/15/21 14:45	1
Toluene-d8 (Surr)	95		75 - 124	03/10/21 17:00	03/15/21 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	0.043	mg/Kg	✱	03/15/21 19:50	03/16/21 15:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	03/15/21 19:50	03/16/21 15:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✱	03/15/21 19:50	03/16/21 15:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	03/15/21 19:50	03/16/21 15:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	03/15/21 19:50	03/16/21 15:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B14

Lab Sample ID: 500-195896-16

Date Collected: 03/09/21 13:15

Matrix: Solid

Date Received: 03/10/21 11:47

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	✳	03/15/21 19:50	03/16/21 15:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Benzo[a]anthracene	0.029 J		0.039	0.0053	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Benzo[a]pyrene	0.035 J		0.039	0.0077	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Benzo[b]fluoranthene	0.049		0.039	0.0086	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Benzo[g,h,i]perylene	0.019 J		0.039	0.013	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Benzo[k]fluoranthene	0.016 J		0.039	0.012	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Chrysene	0.034 J		0.039	0.011	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Fluoranthene	0.056		0.039	0.0073	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	03/15/21 19:50	03/16/21 15:17	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B14

Lab Sample ID: 500-195896-16

Date Collected: 03/09/21 13:15

Matrix: Solid

Date Received: 03/10/21 11:47

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	0.017	J	0.039	0.010	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
Phenanthrene	0.029	J	0.039	0.0055	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
Phenol	<0.20		0.20	0.088	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
Pyrene	0.056		0.039	0.0079	mg/Kg	✧	03/15/21 19:50	03/16/21 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		31 - 143				03/15/21 19:50	03/16/21 15:17	1
2-Fluorobiphenyl	68		43 - 145				03/15/21 19:50	03/16/21 15:17	1
2-Fluorophenol	74		31 - 166				03/15/21 19:50	03/16/21 15:17	1
Nitrobenzene-d5	71		37 - 147				03/15/21 19:50	03/16/21 15:17	1
Phenol-d5	82		30 - 153				03/15/21 19:50	03/16/21 15:17	1
Terphenyl-d14	85		42 - 157				03/15/21 19:50	03/16/21 15:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.95	J	1.2	0.23	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Arsenic	11		0.60	0.20	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Barium	73		0.60	0.068	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Beryllium	1.1		0.24	0.056	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Boron	14		3.0	0.28	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Cadmium	0.19	B	0.12	0.022	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Calcium	27000		12	2.0	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Chromium	19		0.60	0.30	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Cobalt	14		0.30	0.078	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Copper	29		0.60	0.17	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Iron	24000		12	6.2	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Lead	30		0.30	0.14	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Magnesium	18000		6.0	3.0	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Manganese	360		0.60	0.087	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Nickel	37		0.60	0.17	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Potassium	3000		30	11	mg/Kg	✧	03/16/21 06:34	03/19/21 12:52	1
Selenium	<0.60		0.60	0.35	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Silver	0.40		0.30	0.077	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Sodium	1700		60	8.9	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Thallium	0.99		0.60	0.30	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Vanadium	26		0.30	0.071	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	1
Zinc	69		1.2	0.53	mg/Kg	✧	03/16/21 06:34	03/16/21 19:09	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		03/17/21 17:03	03/19/21 13:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/21 17:03	03/22/21 10:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:39	1
Iron	0.20	J	0.40	0.20	mg/L		03/17/21 17:03	03/22/21 10:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Client Sample ID: 3563-2-B14

Lab Sample ID: 500-195896-16

Date Collected: 03/09/21 13:15

Matrix: Solid

Date Received: 03/10/21 11:47

Percent Solids: 83.6

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		03/17/21 17:03	03/22/21 10:24	1
Manganese	8.5		0.025	0.010	mg/L		03/17/21 17:03	03/22/21 10:24	1
Nickel	0.021	J	0.025	0.010	mg/L		03/17/21 17:03	03/19/21 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.081		0.050	0.010	mg/L		03/17/21 17:06	03/18/21 15:25	1
Barium	0.61		0.50	0.050	mg/L		03/17/21 17:06	03/18/21 15:25	1
Beryllium	0.0071		0.0040	0.0040	mg/L		03/17/21 17:06	03/18/21 15:25	1
Boron	0.42	B	0.10	0.050	mg/L		03/17/21 17:06	03/18/21 15:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/21 17:06	03/18/21 15:25	1
Calcium	31		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 15:25	1
Chromium	0.13		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:25	1
Cobalt	0.071		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:25	1
Iron	160	B	0.40	0.20	mg/L		03/17/21 17:06	03/18/21 15:25	1
Lead	0.28		0.0075	0.0075	mg/L		03/17/21 17:06	03/18/21 15:25	1
Manganese	1.5		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:25	1
Nickel	0.20		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:25	1
Potassium	25		2.5	0.50	mg/L		03/17/21 17:06	03/18/21 15:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/21 17:06	03/18/21 15:25	1
Silver	<0.025		0.025	0.010	mg/L		03/17/21 17:06	03/18/21 15:25	1
Zinc	0.51		0.50	0.020	mg/L		03/17/21 17:06	03/18/21 15:25	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		03/17/21 17:03	03/18/21 17:18	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		03/17/21 17:06	03/18/21 14:20	1
Thallium	0.0043		0.0020	0.0020	mg/L		03/17/21 17:06	03/18/21 14:20	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		03/18/21 10:00	03/19/21 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0064	mg/Kg	⊛	03/17/21 14:40	03/18/21 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	⊛	03/11/21 10:41	03/11/21 14:42	1
pH	8.3		0.2	0.2	SU			03/16/21 18:43	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable 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
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 exceeds control 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, and the absolute difference between results is < the upper reporting limits for both.
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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195896-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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 <u>TEST AMERICA - CHICAGO</u> Address <u>2417 BOND STREET</u> <u>UNIVERSITY PARK, IL 60484</u> Phone <u>708-534-5200</u> Contact <u>DICK WRIGHT EUROFINSET</u> email <u>RICHARD.WRIGHT@TESTAMERICA.COM</u>	Project Name <u>AET-041A</u> 500-195896 COC Project No <u>PTB/WO:184-006-41A</u> TAT <input type="checkbox"/> 15 BD <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>JOSHUA HEY</u>	COC No <u>1</u> of <u>2</u> Lab Job No: <u>500-195896</u> <u>3.1 → 4.6 48qt</u> Sample Temp: <u>2.6 → 1.7 36qt</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	3563-2-B01	3/9/21	1035	S	X	X					K	X	K	K	K		
2	3563-2-B02		1045														
3	3563-2-B03		1055														
4	3563-2-B04		1115														
5	3563-2-B05		1125														
6	3563-2-B06		1130														
7	3563-2-B07		1145														
8	3563-2-B08		1200														
9	3563-2-B09		1210														
10	3563-2-B10		1220														
11	3563-2-B10DJR	✓	1230	✓	✓	✓					✓	✓	✓	✓	✓		
12	TRIP BLANK #1	3/9/21			X	X											

Relinquished by <u>[Signature]</u>	Date/Time <u>3-10-21 11:00</u>	Received by <u>[Signature]</u>	Date/Time <u>3/10/21 11:00</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>3/10/21 1147</u>	Received by <u>Stephanie Hernandez</u> ETA-CH1	Date/Time <u>3/10/21 1147</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: 500-195966-1
Client Project/Site: IDOT - AE7-041

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
3/24/2021 8:12:33 AM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B21

Lab Sample ID: 500-195966-3

Date Collected: 03/10/21 09:40

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 86.1

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	✱	03/11/21 17:05	03/22/21 15:13	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Acetone	<0.018		0.018	0.0077	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✱	03/11/21 17:05	03/22/21 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	03/11/21 17:05	03/22/21 15:13	1
4-Bromofluorobenzene (Surr)	91		75 - 131	03/11/21 17:05	03/22/21 15:13	1
Dibromofluoromethane	105		75 - 126	03/11/21 17:05	03/22/21 15:13	1
Toluene-d8 (Surr)	93		75 - 124	03/11/21 17:05	03/22/21 15:13	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	✱	03/17/21 20:16	03/19/21 10:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B21

Lab Sample ID: 500-195966-3

Date Collected: 03/10/21 09:40

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 86.1

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	✳	03/17/21 20:16	03/19/21 10:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Acenaphthene	0.021	J	0.038	0.0069	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Acenaphthylene	0.011	J	0.038	0.0051	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Anthracene	0.069		0.038	0.0064	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Benzo[a]anthracene	0.61		0.038	0.0052	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Benzo[a]pyrene	1.1		0.038	0.0074	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Benzo[b]fluoranthene	1.8		0.038	0.0083	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Benzo[g,h,i]perylene	0.33		0.038	0.012	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Benzo[k]fluoranthene	0.75		0.038	0.011	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Bis(2-ethylhexyl) phthalate	0.080	J	0.19	0.070	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Carbazole	0.099	J	0.19	0.096	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Chrysene	0.93		0.038	0.010	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Dibenz(a,h)anthracene	0.097		0.038	0.0074	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Fluoranthene	0.99		0.038	0.0071	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Fluorene	0.018	J	0.038	0.0054	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	03/17/21 20:16	03/19/21 10:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B21

Lab Sample ID: 500-195966-3

Date Collected: 03/10/21 09:40

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 86.1

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	0.29		0.038	0.0099	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
Naphthalene	0.0068	J	0.038	0.0059	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
Phenanthrene	0.33		0.038	0.0053	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
Phenol	<0.19		0.19	0.085	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
Pyrene	1.6		0.038	0.0076	mg/Kg	✱	03/17/21 20:16	03/19/21 10:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		31 - 143				03/17/21 20:16	03/19/21 10:20	1
2-Fluorobiphenyl	97		43 - 145				03/17/21 20:16	03/19/21 10:20	1
2-Fluorophenol	132		31 - 166				03/17/21 20:16	03/19/21 10:20	1
Nitrobenzene-d5	97		37 - 147				03/17/21 20:16	03/19/21 10:20	1
Phenol-d5	119		30 - 153				03/17/21 20:16	03/19/21 10:20	1
Terphenyl-d14	174	S1+	42 - 157				03/17/21 20:16	03/19/21 10:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.22	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Arsenic	3.6		0.58	0.20	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Barium	27		0.58	0.066	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Beryllium	0.46		0.23	0.054	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Boron	8.4		2.9	0.27	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Cadmium	0.20		0.12	0.021	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Calcium	120000		58	9.8	mg/Kg	✱	03/17/21 06:02	03/19/21 10:35	5
Chromium	12		0.58	0.29	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Cobalt	4.9		0.29	0.076	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Copper	17		0.58	0.16	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Iron	10000		58	30	mg/Kg	✱	03/17/21 06:02	03/19/21 10:35	5
Lead	23		0.29	0.13	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Magnesium	72000		29	14	mg/Kg	✱	03/17/21 06:02	03/19/21 10:35	5
Manganese	300		0.58	0.084	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Nickel	14		0.58	0.17	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Potassium	1300		29	10	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Selenium	<0.58		0.58	0.34	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Silver	0.12	J	0.29	0.074	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Sodium	2400		58	8.5	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Thallium	0.47	J	0.58	0.29	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Vanadium	15		0.29	0.068	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	1
Zinc	77		1.2	0.51	mg/Kg	✱	03/17/21 06:02	03/17/21 15:30	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		03/19/21 17:12	03/22/21 13:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/21 17:12	03/23/21 12:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 13:45	1
Iron	<0.40		0.40	0.20	mg/L		03/19/21 17:12	03/23/21 12:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B21

Lab Sample ID: 500-195966-3

Date Collected: 03/10/21 09:40

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 86.1

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		03/19/21 17:12	03/22/21 13:45	1
Manganese	2.4		0.025	0.010	mg/L		03/19/21 17:12	03/23/21 12:32	1
Nickel	0.021	J	0.025	0.010	mg/L		03/19/21 17:12	03/22/21 13:45	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		03/19/21 17:16	03/22/21 11:30	1
Barium	0.44	J	0.50	0.050	mg/L		03/19/21 17:16	03/22/21 11:30	1
Beryllium	0.0065		0.0040	0.0040	mg/L		03/19/21 17:16	03/22/21 11:30	1
Boron	0.54		0.10	0.050	mg/L		03/19/21 17:16	03/22/21 11:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/21 17:16	03/22/21 11:30	1
Calcium	28		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:30	1
Chromium	0.12		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:30	1
Cobalt	0.044		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:30	1
Iron	120		0.40	0.20	mg/L		03/19/21 17:16	03/22/21 11:30	1
Lead	0.20		0.0075	0.0075	mg/L		03/19/21 17:16	03/22/21 11:30	1
Manganese	0.77		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:30	1
Nickel	0.14		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:30	1
Potassium	24		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/21 17:16	03/22/21 11:30	1
Silver	<0.025		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:30	1
Zinc	0.58		0.50	0.020	mg/L		03/19/21 17:16	03/22/21 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		03/19/21 17:12	03/23/21 12:34	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		03/19/21 17:16	03/22/21 12:14	1
Thallium	0.0043		0.0020	0.0020	mg/L		03/19/21 17:16	03/22/21 12:14	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		03/19/21 15:05	03/22/21 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0060	mg/Kg	⊛	03/17/21 14:40	03/18/21 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.23	J	0.27	0.13	mg/Kg	⊛	03/18/21 10:31	03/18/21 12:50	1
pH	8.6		0.2	0.2	SU			03/16/21 15:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B22

Lab Sample ID: 500-195966-6

Date Collected: 03/10/21 10:10

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 87.0

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	✳	03/11/21 17:05	03/22/21 16:34	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Acetone	<0.018		0.018	0.0079	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	03/11/21 17:05	03/22/21 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	03/11/21 17:05	03/22/21 16:34	1
4-Bromofluorobenzene (Surr)	90		75 - 131	03/11/21 17:05	03/22/21 16:34	1
Dibromofluoromethane	102		75 - 126	03/11/21 17:05	03/22/21 16:34	1
Toluene-d8 (Surr)	93		75 - 124	03/11/21 17:05	03/22/21 16:34	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	0.041	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B22

Lab Sample ID: 500-195966-6

Date Collected: 03/10/21 10:10

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Acenaphthene	0.015	J	0.038	0.0068	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Acenaphthylene	0.0059	J	0.038	0.0050	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Anthracene	0.035	J	0.038	0.0063	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Benzo[a]anthracene	0.11		0.038	0.0051	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Benzo[a]pyrene	0.15		0.038	0.0074	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Benzo[b]fluoranthene	0.23		0.038	0.0082	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Benzo[g,h,i]perylene	0.043		0.038	0.012	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Benzo[k]fluoranthene	0.089		0.038	0.011	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Carbazole	<0.19		0.19	0.095	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Chrysene	0.14		0.038	0.010	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Dibenz(a,h)anthracene	0.020	J	0.038	0.0073	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Fluoranthene	0.27		0.038	0.0070	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Fluorene	0.014	J	0.038	0.0053	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	03/17/21 20:16	03/19/21 07:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B22

Lab Sample ID: 500-195966-6

Date Collected: 03/10/21 10:10

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 87.0

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	0.046		0.038	0.0098	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
Phenanthrene	0.16		0.038	0.0053	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
Phenol	<0.19		0.19	0.084	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
Pyrene	0.29		0.038	0.0075	mg/Kg	☆	03/17/21 20:16	03/19/21 07:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		31 - 143				03/17/21 20:16	03/19/21 07:57	1
2-Fluorobiphenyl	91		43 - 145				03/17/21 20:16	03/19/21 07:57	1
2-Fluorophenol	112		31 - 166				03/17/21 20:16	03/19/21 07:57	1
Nitrobenzene-d5	84		37 - 147				03/17/21 20:16	03/19/21 07:57	1
Phenol-d5	110		30 - 153				03/17/21 20:16	03/19/21 07:57	1
Terphenyl-d14	138		42 - 157				03/17/21 20:16	03/19/21 07:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1		1.0	0.20	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Arsenic	8.4		0.52	0.18	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Barium	62		0.52	0.060	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Beryllium	0.81		0.21	0.049	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Boron	7.9		2.6	0.24	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Cadmium	0.18		0.10	0.019	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Calcium	19000		10	1.8	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Chromium	16		0.52	0.26	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Cobalt	13		0.26	0.068	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Copper	23		0.52	0.15	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Iron	18000		10	5.4	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Lead	29		0.26	0.12	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Magnesium	13000		5.2	2.6	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Manganese	330		0.52	0.076	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Nickel	28		0.52	0.15	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Potassium	2100		26	9.2	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Selenium	0.47 J		0.52	0.31	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Silver	0.38		0.26	0.067	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Sodium	1800		52	7.7	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Thallium	0.62		0.52	0.26	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Vanadium	23		0.26	0.062	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	1
Zinc	65		1.0	0.46	mg/Kg	☆	03/17/21 06:02	03/17/21 15:40	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		03/19/21 17:12	03/22/21 13:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/21 17:12	03/23/21 12:52	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 13:55	1
Iron	<0.40		0.40	0.20	mg/L		03/19/21 17:12	03/23/21 12:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B22

Lab Sample ID: 500-195966-6

Date Collected: 03/10/21 10:10

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 87.0

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		03/19/21 17:12	03/22/21 13:55	1
Manganese	6.5		0.025	0.010	mg/L		03/19/21 17:12	03/23/21 12:52	1
Nickel	0.028		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 13:55	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		03/19/21 17:16	03/22/21 11:40	1
Barium	0.59		0.50	0.050	mg/L		03/19/21 17:16	03/22/21 11:40	1
Beryllium	0.0092		0.0040	0.0040	mg/L		03/19/21 17:16	03/22/21 11:40	1
Boron	0.38		0.10	0.050	mg/L		03/19/21 17:16	03/22/21 11:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/21 17:16	03/22/21 11:40	1
Calcium	33		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:40	1
Chromium	0.15		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:40	1
Cobalt	0.090		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:40	1
Iron	190		0.40	0.20	mg/L		03/19/21 17:16	03/22/21 11:40	1
Lead	0.27		0.0075	0.0075	mg/L		03/19/21 17:16	03/22/21 11:40	1
Manganese	1.4		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:40	1
Nickel	0.24		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:40	1
Potassium	32		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/21 17:16	03/22/21 11:40	1
Silver	<0.025		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:40	1
Zinc	0.63		0.50	0.020	mg/L		03/19/21 17:16	03/22/21 11:40	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		03/19/21 17:12	03/23/21 12:40	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		03/19/21 17:16	03/22/21 12:20	1
Thallium	0.0069		0.0020	0.0020	mg/L		03/19/21 17:16	03/22/21 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		03/19/21 15:05	03/22/21 10:04	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	✱	03/17/21 14:40	03/18/21 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.14	mg/Kg	✱	03/18/21 10:31	03/18/21 12:59	1
pH	8.4		0.2	0.2	SU			03/16/21 15:38	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B18

Lab Sample ID: 500-195966-7

Date Collected: 03/10/21 11:15

Matrix: Solid

Date Received: 03/11/21 11:59

Percent Solids: 83.9

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	✱	03/11/21 17:05	03/22/21 17:00	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Acetone	<0.017		0.017	0.0076	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✱	03/11/21 17:05	03/22/21 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	03/11/21 17:05	03/22/21 17:00	1
4-Bromofluorobenzene (Surr)	91		75 - 131	03/11/21 17:05	03/22/21 17:00	1
Dibromofluoromethane	104		75 - 126	03/11/21 17:05	03/22/21 17:00	1
Toluene-d8 (Surr)	95		75 - 124	03/11/21 17:05	03/22/21 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	✱	03/17/21 20:16	03/18/21 14:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	03/17/21 20:16	03/18/21 14:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	03/17/21 20:16	03/18/21 14:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	03/17/21 20:16	03/18/21 14:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	03/17/21 20:16	03/18/21 14:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B18

Lab Sample ID: 500-195966-7

Date Collected: 03/10/21 11:15

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 83.9

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	✳	03/17/21 20:16	03/18/21 14:31	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2-Methylnaphthalene	0.011	J	0.080	0.0073	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Acenaphthene	0.044		0.039	0.0071	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Acenaphthylene	0.015	J	0.039	0.0052	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Anthracene	0.11		0.039	0.0066	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Benzo[a]anthracene	0.76		0.039	0.0053	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Bis(2-ethylhexyl) phthalate	0.12	J	0.20	0.072	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Carbazole	0.11	J	0.20	0.099	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Chrysene	1.0		0.039	0.011	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Fluoranthene	1.7		0.039	0.0073	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Fluorene	0.044		0.039	0.0056	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Naphthalene	0.013	J	0.039	0.0061	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	03/17/21 20:16	03/18/21 14:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B18

Lab Sample ID: 500-195966-7

Date Collected: 03/10/21 11:15

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	03/17/21 20:16	03/18/21 14:31	1
Phenanthrene	0.78		0.039	0.0055	mg/Kg	☼	03/17/21 20:16	03/18/21 14:31	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/17/21 20:16	03/18/21 14:31	1
Pyrene	1.9		0.039	0.0078	mg/Kg	☼	03/17/21 20:16	03/18/21 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	88		31 - 143				03/17/21 20:16	03/18/21 14:31	1
2-Fluorobiphenyl	90		43 - 145				03/17/21 20:16	03/18/21 14:31	1
2-Fluorophenol	98		31 - 166				03/17/21 20:16	03/18/21 14:31	1
Nitrobenzene-d5	92		37 - 147				03/17/21 20:16	03/18/21 14:31	1
Phenol-d5	102		30 - 153				03/17/21 20:16	03/18/21 14:31	1
Terphenyl-d14	114		42 - 157				03/17/21 20:16	03/18/21 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.1		0.078	0.015	mg/Kg	☼	03/17/21 20:16	03/19/21 05:06	2
Benzo[b]fluoranthene	1.8		0.078	0.017	mg/Kg	☼	03/17/21 20:16	03/19/21 05:06	2
Benzo[g,h,i]perylene	0.50		0.078	0.025	mg/Kg	☼	03/17/21 20:16	03/19/21 05:06	2
Benzo[k]fluoranthene	0.68		0.078	0.023	mg/Kg	☼	03/17/21 20:16	03/19/21 05:06	2
Dibenz(a,h)anthracene	0.12		0.078	0.015	mg/Kg	☼	03/17/21 20:16	03/19/21 05:06	2
Indeno[1,2,3-cd]pyrene	0.48		0.078	0.020	mg/Kg	☼	03/17/21 20:16	03/19/21 05:06	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		31 - 143				03/17/21 20:16	03/19/21 05:06	2
2-Fluorobiphenyl	98		43 - 145				03/17/21 20:16	03/19/21 05:06	2
2-Fluorophenol	123		31 - 166				03/17/21 20:16	03/19/21 05:06	2
Nitrobenzene-d5	95		37 - 147				03/17/21 20:16	03/19/21 05:06	2
Phenol-d5	117		30 - 153				03/17/21 20:16	03/19/21 05:06	2
Terphenyl-d14	143		42 - 157				03/17/21 20:16	03/19/21 05:06	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.1	0.22	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Arsenic	8.0		0.56	0.19	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Barium	72		0.56	0.063	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Beryllium	0.80		0.22	0.052	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Boron	8.5		2.8	0.26	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Cadmium	0.29		0.11	0.020	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Calcium	28000		11	1.9	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Chromium	24		0.56	0.28	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Cobalt	12		0.28	0.073	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Copper	35		0.56	0.16	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Iron	20000		11	5.8	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Lead	43		0.28	0.13	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Magnesium	17000		5.6	2.8	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Manganese	360		0.56	0.081	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Nickel	29		0.56	0.16	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Potassium	2000		28	9.9	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Selenium	0.40	J	0.56	0.33	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Silver	0.35		0.28	0.072	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B18

Lab Sample ID: 500-195966-7

Date Collected: 03/10/21 11:15

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	1300		56	8.2	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Thallium	0.40	J	0.56	0.28	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Vanadium	21		0.28	0.066	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	1
Zinc	110		1.1	0.49	mg/Kg	☼	03/17/21 06:02	03/17/21 15:43	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		03/19/21 17:12	03/22/21 13:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/21 17:12	03/23/21 12:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 13:58	1
Iron	<0.40		0.40	0.20	mg/L		03/19/21 17:12	03/23/21 12:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/19/21 17:12	03/22/21 13:58	1
Manganese	1.1		0.025	0.010	mg/L		03/19/21 17:12	03/23/21 12:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 13:58	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		03/19/21 17:16	03/22/21 11:43	1
Barium	0.48	J	0.50	0.050	mg/L		03/19/21 17:16	03/22/21 11:43	1
Beryllium	0.0069		0.0040	0.0040	mg/L		03/19/21 17:16	03/22/21 11:43	1
Boron	0.32		0.10	0.050	mg/L		03/19/21 17:16	03/22/21 11:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/21 17:16	03/22/21 11:43	1
Calcium	27		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:43	1
Chromium	0.12		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:43	1
Cobalt	0.036		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:43	1
Iron	130		0.40	0.20	mg/L		03/19/21 17:16	03/22/21 11:43	1
Lead	0.10		0.0075	0.0075	mg/L		03/19/21 17:16	03/22/21 11:43	1
Manganese	0.47		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:43	1
Nickel	0.16		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:43	1
Potassium	23		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/21 17:16	03/22/21 11:43	1
Silver	<0.025		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:43	1
Zinc	0.45	J	0.50	0.020	mg/L		03/19/21 17:16	03/22/21 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		03/19/21 17:12	03/23/21 12:42	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		03/19/21 17:16	03/22/21 12:26	1
Thallium	0.0056		0.0020	0.0020	mg/L		03/19/21 17:16	03/22/21 12:26	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		03/19/21 15:05	03/22/21 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0065	mg/Kg	☼	03/17/21 14:40	03/18/21 09:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B18

Lab Sample ID: 500-195966-7

Date Collected: 03/10/21 11:15

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 83.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	☼	03/18/21 10:31	03/18/21 13:01	1
pH	7.8		0.2	0.2	SU			03/16/21 15:38	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B19

Lab Sample ID: 500-195966-8

Date Collected: 03/10/21 11:25

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 87.0

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	0.00058	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Acetone	0.0092	J	0.017	0.0076	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✳	03/11/21 17:05	03/22/21 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/11/21 17:05	03/22/21 17:27	1
4-Bromofluorobenzene (Surr)	98		75 - 131	03/11/21 17:05	03/22/21 17:27	1
Dibromofluoromethane	104		75 - 126	03/11/21 17:05	03/22/21 17:27	1
Toluene-d8 (Surr)	99		75 - 124	03/11/21 17:05	03/22/21 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B19

Lab Sample ID: 500-195966-8

Date Collected: 03/10/21 11:25

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2-Methylnaphthalene	0.0081	J	0.077	0.0070	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Acenaphthene	0.0071	J	0.038	0.0068	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Acenaphthylene	0.0066	J	0.038	0.0050	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Anthracene	0.024	J	0.038	0.0063	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Benzo[a]anthracene	0.16		0.038	0.0051	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Benzo[a]pyrene	0.25		0.038	0.0073	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Benzo[b]fluoranthene	0.42		0.038	0.0082	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Benzo[g,h,i]perylene	0.072		0.038	0.012	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Benzo[k]fluoranthene	0.12		0.038	0.011	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Carbazole	<0.19		0.19	0.095	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Chrysene	0.24		0.038	0.010	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Dibenz(a,h)anthracene	0.023	J	0.038	0.0073	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Fluoranthene	0.37		0.038	0.0070	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Fluorene	0.0073	J	0.038	0.0053	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	03/17/21 20:16	03/19/21 08:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B19

Lab Sample ID: 500-195966-8

Date Collected: 03/10/21 11:25

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 87.0

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	0.071		0.038	0.0098	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
Phenanthrene	0.14		0.038	0.0053	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
Pyrene	0.43		0.038	0.0075	mg/Kg	☼	03/17/21 20:16	03/19/21 08:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		31 - 143				03/17/21 20:16	03/19/21 08:26	1
2-Fluorobiphenyl	90		43 - 145				03/17/21 20:16	03/19/21 08:26	1
2-Fluorophenol	121		31 - 166				03/17/21 20:16	03/19/21 08:26	1
Nitrobenzene-d5	84		37 - 147				03/17/21 20:16	03/19/21 08:26	1
Phenol-d5	118		30 - 153				03/17/21 20:16	03/19/21 08:26	1
Terphenyl-d14	147		42 - 157				03/17/21 20:16	03/19/21 08:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.90	J	1.1	0.21	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Arsenic	7.8		0.54	0.18	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Barium	42		0.54	0.061	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Beryllium	0.72		0.22	0.050	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Boron	10		2.7	0.25	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Cadmium	0.24		0.11	0.019	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Calcium	64000		54	9.1	mg/Kg	☼	03/17/21 06:02	03/19/21 10:44	5
Chromium	15		0.54	0.27	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Cobalt	11		0.27	0.071	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Copper	28		0.54	0.15	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Iron	20000		54	28	mg/Kg	☼	03/17/21 06:02	03/19/21 10:44	5
Lead	36		0.27	0.12	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Magnesium	38000		27	13	mg/Kg	☼	03/17/21 06:02	03/19/21 10:44	5
Manganese	320		0.54	0.078	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Nickel	26		0.54	0.16	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Potassium	2200		27	9.5	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Selenium	0.40	J	0.54	0.32	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Silver	0.29		0.27	0.069	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Sodium	1000		54	8.0	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Thallium	0.54		0.54	0.27	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Vanadium	17		0.27	0.064	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	1
Zinc	76		1.1	0.47	mg/Kg	☼	03/17/21 06:02	03/17/21 15:46	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		03/19/21 17:12	03/22/21 14:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/21 17:12	03/23/21 12:58	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 14:01	1
Iron	<0.40		0.40	0.20	mg/L		03/19/21 17:12	03/23/21 12:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B19

Lab Sample ID: 500-195966-8

Date Collected: 03/10/21 11:25

Matrix: Solid

Date Received: 03/11/21 11:50

Percent Solids: 87.0

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		03/19/21 17:12	03/22/21 14:01	1
Manganese	1.1		0.025	0.010	mg/L		03/19/21 17:12	03/23/21 12:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 14:01	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		03/19/21 17:16	03/22/21 11:46	1
Barium	0.55		0.50	0.050	mg/L		03/19/21 17:16	03/22/21 11:46	1
Beryllium	0.0095		0.0040	0.0040	mg/L		03/19/21 17:16	03/22/21 11:46	1
Boron	0.28		0.10	0.050	mg/L		03/19/21 17:16	03/22/21 11:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/21 17:16	03/22/21 11:46	1
Calcium	31		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:46	1
Chromium	0.15		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:46	1
Cobalt	0.064		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:46	1
Iron	190		0.40	0.20	mg/L		03/19/21 17:16	03/22/21 11:46	1
Lead	0.15		0.0075	0.0075	mg/L		03/19/21 17:16	03/22/21 11:46	1
Manganese	0.82		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:46	1
Nickel	0.23		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:46	1
Potassium	33		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/21 17:16	03/22/21 11:46	1
Silver	<0.025		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:46	1
Zinc	0.62		0.50	0.020	mg/L		03/19/21 17:16	03/22/21 11:46	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		03/19/21 17:12	03/23/21 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		03/19/21 17:16	03/22/21 12:28	1
Thallium	0.0069		0.0020	0.0020	mg/L		03/19/21 17:16	03/22/21 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		03/19/21 15:05	03/22/21 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0062	mg/Kg	✱	03/17/21 14:40	03/18/21 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	✱	03/18/21 10:31	03/18/21 13:02	1
pH	8.1		0.2	0.2	SU			03/16/21 16:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B17

Lab Sample ID: 500-195966-9

Date Collected: 03/10/21 11:35

Matrix: Solid

Date Received: 03/11/21 11:50

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	<0.0016		0.0016	0.00052	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
1,1-Dichloroethene	<0.0016		0.0016	0.00053	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00054	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0011	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Acetone	<0.016		0.016	0.0068	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00043	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Ethylbenzene	<0.0016		0.0016	0.00074	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00054	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Trichloroethene	<0.0016		0.0016	0.00052	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	✱	03/11/21 17:05	03/22/21 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/11/21 17:05	03/22/21 17:53	1
4-Bromofluorobenzene (Surr)	88		75 - 131	03/11/21 17:05	03/22/21 17:53	1
Dibromofluoromethane	103		75 - 126	03/11/21 17:05	03/22/21 17:53	1
Toluene-d8 (Surr)	95		75 - 124	03/11/21 17:05	03/22/21 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B17

Lab Sample ID: 500-195966-9

Date Collected: 03/10/21 11:35

Matrix: Solid

Date Received: 03/11/21 11:50

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	0.090	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Benzo[a]anthracene	0.015	J	0.039	0.0053	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Benzo[a]pyrene	0.019	J	0.039	0.0076	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Benzo[b]fluoranthene	0.029	J	0.039	0.0085	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Chrysene	0.031	J	0.039	0.011	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Fluoranthene	0.034	J	0.039	0.0073	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	03/17/21 20:16	03/18/21 12:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B17

Lab Sample ID: 500-195966-9

Date Collected: 03/10/21 11:35

Matrix: Solid

Date Received: 03/11/21 11:50

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	0.011	J	0.039	0.010	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
Phenol	<0.20		0.20	0.087	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
Pyrene	0.037	J	0.039	0.0078	mg/Kg	✱	03/17/21 20:16	03/18/21 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		31 - 143				03/17/21 20:16	03/18/21 12:53	1
2-Fluorobiphenyl	88		43 - 145				03/17/21 20:16	03/18/21 12:53	1
2-Fluorophenol	94		31 - 166				03/17/21 20:16	03/18/21 12:53	1
Nitrobenzene-d5	87		37 - 147				03/17/21 20:16	03/18/21 12:53	1
Phenol-d5	100		30 - 153				03/17/21 20:16	03/18/21 12:53	1
Terphenyl-d14	95		42 - 157				03/17/21 20:16	03/18/21 12:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.91	J	1.1	0.22	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Arsenic	9.5		0.56	0.19	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Barium	35		0.56	0.064	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Beryllium	0.81		0.23	0.053	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Boron	11		2.8	0.26	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Cadmium	0.18		0.11	0.020	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Calcium	46000		56	9.6	mg/Kg	✱	03/17/21 06:02	03/19/21 10:47	5
Chromium	14		0.56	0.28	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Cobalt	14		0.28	0.074	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Copper	28		0.56	0.16	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Iron	20000		11	5.9	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Lead	17		0.28	0.13	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Magnesium	25000		5.6	2.8	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Manganese	260		0.56	0.082	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Nickel	34		0.56	0.16	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Potassium	2500		28	10	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Selenium	0.43	J	0.56	0.33	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Silver	0.31		0.28	0.073	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Sodium	400		56	8.3	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Thallium	1.0		0.56	0.28	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Vanadium	18		0.28	0.066	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	1
Zinc	68		1.1	0.49	mg/Kg	✱	03/17/21 06:02	03/17/21 15:56	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		03/19/21 17:12	03/22/21 14:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/21 17:12	03/23/21 13:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 14:05	1
Iron	<0.40		0.40	0.20	mg/L		03/19/21 17:12	03/23/21 13:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Client Sample ID: 3563-2-B17

Lab Sample ID: 500-195966-9

Date Collected: 03/10/21 11:35

Matrix: Solid

Date Received: 03/11/21 11:50

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		03/19/21 17:12	03/22/21 14:05	1
Manganese	0.48		0.025	0.010	mg/L		03/19/21 17:12	03/23/21 13:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 14:05	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		03/19/21 17:16	03/22/21 11:49	1
Barium	0.43	J	0.50	0.050	mg/L		03/19/21 17:16	03/22/21 11:49	1
Beryllium	0.0079		0.0040	0.0040	mg/L		03/19/21 17:16	03/22/21 11:49	1
Boron	0.37		0.10	0.050	mg/L		03/19/21 17:16	03/22/21 11:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/21 17:16	03/22/21 11:49	1
Calcium	31		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:49	1
Chromium	0.13		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:49	1
Cobalt	0.043		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:49	1
Iron	150		0.40	0.20	mg/L		03/19/21 17:16	03/22/21 11:49	1
Lead	0.13		0.0075	0.0075	mg/L		03/19/21 17:16	03/22/21 11:49	1
Manganese	0.52		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:49	1
Nickel	0.17		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:49	1
Potassium	29		2.5	0.50	mg/L		03/19/21 17:16	03/22/21 11:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/21 17:16	03/22/21 11:49	1
Silver	<0.025		0.025	0.010	mg/L		03/19/21 17:16	03/22/21 11:49	1
Zinc	0.46	J	0.50	0.020	mg/L		03/19/21 17:16	03/22/21 11:49	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		03/19/21 17:12	03/23/21 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		03/19/21 17:16	03/22/21 12:30	1
Thallium	0.0052		0.0020	0.0020	mg/L		03/19/21 17:16	03/22/21 12:30	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		03/19/21 15:05	03/22/21 10:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0062	mg/Kg	✱	03/17/21 14:40	03/18/21 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	✱	03/18/21 10:31	03/18/21 13:04	1
pH	8.4		0.2	0.2	SU			03/16/21 16:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

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 and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

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.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Eurofins TestAmerica, Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-195966-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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 <u>TEST AMERICA - CHICAGO</u> Address <u>2417 BOND STREET</u> <u>UNIVERSITY PARK, IL 60484</u> Phone <u>708-534-5200</u> Contact <u>DICK WRIGHT</u> email <u>RICHARD.WRIGHT@EUROFINSET.COM</u>	Project Name <u>AET-041A</u> 500-195966 COC Project No <u>PTB/WO: 184-006-41A</u> TAT <input type="checkbox"/> 15 BD <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>JOSHUA HEY</u>	COC No <u>1</u> of <u>2</u> Lab Job No <u>500-195966</u> Sample Temp. <u>6.4, 2.4</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	3563-2-B20	3/10/21	0915	S	K	K					K	K	K	K	K		
2	3563-2-B20DUP		0920														
3	3563-2-B21		0940														
4	3563-2-B24		0950														
5	3563-2-B23		1000														
6	3563-2-B22		1010														
7	3563-2-B18		1115														
8	3563-2-B19		1125														
9	3563-2-B17		1135														
10 st	3563-2-B	3/11/21															
11	3563-2-B			Y	Y	Y					Y	Y	Y	Y	Y		
12	10 TRIP BLANK #2	3/6/21			X												

Relinquished by <u>[Signature]</u>	Date/Time <u>3/11/21 1100</u>	Received by <u>[Signature]</u>	Date/Time <u>3/11/21 1100</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>3/11/21 1150</u>	Received by <u>Stephanie Hernandez</u>	Date/Time <u>3/11/21 1150</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: 500-196114-1
Client Project/Site: IDOT - AE7-041

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
3/25/2021 11:53:51 AM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - AE7-041

Job ID: 500-196114-1

Client Sample ID: 3563-2-B16

Lab Sample ID: 500-196114-1

Date Collected: 03/12/21 13:40

Matrix: Solid

Date Received: 03/15/21 14:30

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	✱	03/12/21 13:40	03/24/21 19:48	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Acetone	0.024		0.016	0.0070	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Benzene	0.00081	J	0.0016	0.00041	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	✱	03/12/21 13:40	03/24/21 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	03/12/21 13:40	03/24/21 19:48	1
4-Bromofluorobenzene (Surr)	94		75 - 131	03/12/21 13:40	03/24/21 19:48	1
Dibromofluoromethane	105		75 - 126	03/12/21 13:40	03/24/21 19:48	1
Toluene-d8 (Surr)	93		75 - 124	03/12/21 13:40	03/24/21 19:48	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	✱	03/19/21 19:42	03/22/21 12:33	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-196114-1

Client Sample ID: 3563-2-B16

Lab Sample ID: 500-196114-1

Date Collected: 03/12/21 13:40

Matrix: Solid

Date Received: 03/15/21 14:30

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	0.090	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Anthracene	0.018	J	0.039	0.0066	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Benzo[a]anthracene	0.072		0.039	0.0053	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Benzo[a]pyrene	0.090		0.039	0.0076	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Benzo[b]fluoranthene	0.094		0.039	0.0085	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Benzo[g,h,i]perylene	0.053		0.039	0.013	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Benzo[k]fluoranthene	0.052		0.039	0.012	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Chrysene	0.088		0.039	0.011	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Dibenz(a,h)anthracene	0.0088	J	0.039	0.0076	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Fluoranthene	0.14		0.039	0.0073	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-196114-1

Client Sample ID: 3563-2-B16

Lab Sample ID: 500-196114-1

Date Collected: 03/12/21 13:40

Matrix: Solid

Date Received: 03/15/21 14:30

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	0.045		0.039	0.010	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Phenanthrene	0.071		0.039	0.0055	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Phenol	<0.20		0.20	0.087	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Pyrene	0.15		0.039	0.0078	mg/Kg	✱	03/19/21 19:42	03/22/21 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		31 - 143				03/19/21 19:42	03/22/21 12:33	1
2-Fluorobiphenyl	77		43 - 145				03/19/21 19:42	03/22/21 12:33	1
2-Fluorophenol	84		31 - 166				03/19/21 19:42	03/22/21 12:33	1
Nitrobenzene-d5	80		37 - 147				03/19/21 19:42	03/22/21 12:33	1
Phenol-d5	89		30 - 153				03/19/21 19:42	03/22/21 12:33	1
Terphenyl-d14	85		42 - 157				03/19/21 19:42	03/22/21 12:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.22	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Arsenic	7.6		0.56	0.19	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Barium	56		0.56	0.064	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Beryllium	0.85		0.23	0.053	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Boron	11		2.8	0.26	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Cadmium	0.23	B	0.11	0.020	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Calcium	72000		56	9.5	mg/Kg	✱	03/18/21 17:40	03/23/21 11:40	5
Chromium	15		0.56	0.28	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Cobalt	12		0.28	0.074	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Copper	24		0.56	0.16	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Iron	21000		56	29	mg/Kg	✱	03/18/21 17:40	03/23/21 11:40	5
Lead	42		0.28	0.13	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Magnesium	45000		28	14	mg/Kg	✱	03/18/21 17:40	03/23/21 11:40	5
Manganese	340	^2	0.56	0.082	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Nickel	27		0.56	0.16	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Potassium	2100		28	10	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Selenium	<0.56		0.56	0.33	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Silver	0.32		0.28	0.073	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Sodium	1500		56	8.3	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Thallium	0.49	J	0.56	0.28	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Vanadium	21	^2	0.28	0.066	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	1
Zinc	72		1.1	0.49	mg/Kg	✱	03/18/21 17:40	03/22/21 17:23	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		03/19/21 17:12	03/22/21 13:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/19/21 17:12	03/23/21 12:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/19/21 17:12	03/22/21 13:22	1
Iron	<0.40		0.40	0.20	mg/L		03/19/21 17:12	03/23/21 12:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-196114-1

Client Sample ID: 3563-2-B16

Lab Sample ID: 500-196114-1

Date Collected: 03/12/21 13:40

Matrix: Solid

Date Received: 03/15/21 14:30

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		03/19/21 17:12	03/22/21 13:22	1
Manganese	1.5		0.025	0.010	mg/L		03/19/21 17:12	03/23/21 12:25	1
Nickel	0.011	J	0.025	0.010	mg/L		03/19/21 17:12	03/22/21 13:22	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		03/19/21 17:14	03/23/21 14:41	1
Barium	0.92		0.50	0.050	mg/L		03/19/21 17:14	03/23/21 14:41	1
Beryllium	0.012		0.0040	0.0040	mg/L		03/19/21 17:14	03/23/21 14:41	1
Boron	0.25		0.10	0.050	mg/L		03/19/21 17:14	03/23/21 14:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/19/21 17:14	03/23/21 14:41	1
Calcium	39		2.5	0.50	mg/L		03/19/21 17:14	03/23/21 14:41	1
Chromium	0.21		0.025	0.010	mg/L		03/19/21 17:14	03/23/21 14:41	1
Cobalt	0.093		0.025	0.010	mg/L		03/19/21 17:14	03/23/21 14:41	1
Iron	250		0.40	0.20	mg/L		03/19/21 17:14	03/23/21 14:41	1
Lead	0.37		0.0075	0.0075	mg/L		03/19/21 17:14	03/23/21 14:41	1
Manganese	1.6		0.025	0.010	mg/L		03/19/21 17:14	03/23/21 14:41	1
Nickel	0.30		0.025	0.010	mg/L		03/19/21 17:14	03/23/21 14:41	1
Potassium	33		2.5	0.50	mg/L		03/19/21 17:14	03/23/21 14:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/19/21 17:14	03/23/21 14:41	1
Silver	<0.025		0.025	0.010	mg/L		03/19/21 17:14	03/23/21 14:41	1
Zinc	0.86		0.50	0.020	mg/L		03/19/21 17:14	03/23/21 14:41	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		03/19/21 17:12	03/23/21 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/19/21 17:14	03/22/21 13:23	1
Thallium	0.0073		0.0020	0.0020	mg/L		03/19/21 17:14	03/22/21 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		03/19/21 15:05	03/22/21 09:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0063	mg/Kg	⊛	03/22/21 13:40	03/23/21 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	⊛	03/19/21 13:05	03/19/21 17:11	1
pH	8.2		0.2	0.2	SU			03/19/21 16:12	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-196114-1

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
^2	Calibration Blank (ICB and/or CCB) 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-041

Job ID: 500-196114-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

