



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 3887 (IL 31) Office Phone Number, if available: _____

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

600-750 South State Street (southwest corner of US 20 and State Street)

City: Elgin State: IL Zip Code: 60123

County: Kane Township: Elgin

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

Latitude: 42.02061 Longitude: - 88.28379

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 0894385034

IEPA Site Number(s), if assigned: BOL: 0894385115 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 606

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 2773V2-88-B01, 2773V2-88-B03 AND 2773V2-88-B04 WERE SAMPLED ADJACENT TO SITE 2773V2-88. SEE TABLE 3b AND FIGURES 2 AND 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-215773-1.

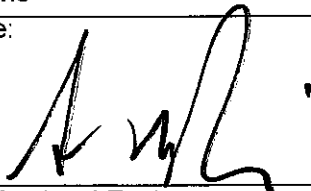
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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))

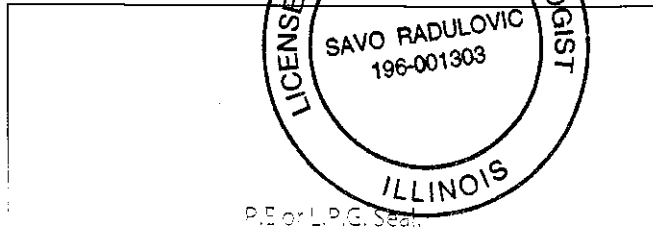
Company Name: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name: _____



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 28, 2022
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 2773V2-88
State of Illinois Buildings

Sample ID	2773V2-88-B01	2773V2-88-B03	2773V2-88-B04	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	0-7	0-7					
Sample Date	4/27/2022	4/27/2022	4/27/2022					
PID	0	0	0	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample pH	8.4	8.4	7.7					
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215773-1
Client Project/Site: IDOT - AE7-059

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
5/13/2022 9:07:36 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@et.eurofinsus.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 - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B01

Lab Sample ID: 500-215773-1

Date Collected: 04/27/22 09:00

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Acetone	<0.020		0.020	0.0087	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Chloromethane	<0.0050	*	0.0050	0.0020	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	✱	04/28/22 18:22	05/03/22 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/28/22 18:22	05/03/22 16:19	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/28/22 18:22	05/03/22 16:19	1
Dibromofluoromethane	110		75 - 126	04/28/22 18:22	05/03/22 16:19	1
Toluene-d8 (Surr)	92		75 - 124	04/28/22 18:22	05/03/22 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✱	05/10/22 08:04	05/11/22 15:06	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✱	05/10/22 08:04	05/11/22 15:06	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	✱	05/10/22 08:04	05/11/22 15:06	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✱	05/10/22 08:04	05/11/22 15:06	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✱	05/10/22 08:04	05/11/22 15:06	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B01

Lab Sample ID: 500-215773-1

Date Collected: 04/27/22 09:00

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2-Methylnaphthalene	<0.072		0.072	0.0065	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Benzo[a]anthracene	0.0054	J	0.035	0.0048	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Benzo[a]pyrene	0.0081	J	0.035	0.0069	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Fluoranthene	0.012	J	0.035	0.0066	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 15:06	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B01

Lab Sample ID: 500-215773-1

Date Collected: 04/27/22 09:00

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 92.9

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	<0.035		0.035	0.0092	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
Isophorone	<0.18		0.18	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.043	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
Phenol	<0.18		0.18	0.079	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1
Pyrene	0.0072	J	0.035	0.0071	mg/Kg	✳	05/10/22 08:04	05/11/22 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		31 - 143	05/10/22 08:04	05/11/22 15:06	1
2-Fluorobiphenyl	84		43 - 145	05/10/22 08:04	05/11/22 15:06	1
2-Fluorophenol	96		31 - 166	05/10/22 08:04	05/11/22 15:06	1
Nitrobenzene-d5 (Surr)	72		37 - 147	05/10/22 08:04	05/11/22 15:06	1
Phenol-d5	94		30 - 153	05/10/22 08:04	05/11/22 15:06	1
Terphenyl-d14 (Surr)	125		42 - 157	05/10/22 08:04	05/11/22 15:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.1	0.21	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Arsenic	6.7		0.53	0.18	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Barium	24		1.1	0.12	mg/Kg	✳	05/04/22 09:00	05/06/22 16:57	2
Beryllium	0.36		0.21	0.050	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Boron	4.4		2.7	0.25	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Cadmium	0.048	J B	0.11	0.019	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Calcium	100000	B	53	9.0	mg/Kg	✳	05/04/22 09:00	05/06/22 17:01	5
Chromium	7.4	B	0.53	0.26	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Cobalt	5.9		0.53	0.14	mg/Kg	✳	05/04/22 09:00	05/06/22 16:57	2
Copper	15	B	0.53	0.15	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Iron	17000	B	21	11	mg/Kg	✳	05/04/22 09:00	05/06/22 16:57	2
Lead	6.8		0.27	0.12	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Magnesium	52000	B	11	5.3	mg/Kg	✳	05/04/22 09:00	05/06/22 16:57	2
Manganese	350	B	0.53	0.077	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Nickel	12		0.53	0.15	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Potassium	590		27	9.4	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Selenium	<0.53		0.53	0.31	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Silver	0.11	J	0.27	0.069	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Sodium	150		53	7.9	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Thallium	0.36	J	0.53	0.27	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Vanadium	22		0.27	0.063	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1
Zinc	31		1.1	0.47	mg/Kg	✳	05/04/22 09:00	05/04/22 20:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:34	05/06/22 20:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B01

Lab Sample ID: 500-215773-1

Date Collected: 04/27/22 09:00

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 92.9

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		05/04/22 16:45	05/05/22 14:01	1
Barium	<0.50		0.50	0.050	mg/L		05/04/22 16:45	05/05/22 14:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 14:01	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 14:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 14:01	1
Calcium	10		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 14:01	1
Chromium	0.012	J	0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:01	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:01	1
Iron	10		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 14:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 14:01	1
Manganese	0.13		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:01	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:01	1
Potassium	2.5		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 14:01	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 14:01	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:01	1
Zinc	0.032	J	0.50	0.020	mg/L		05/04/22 16:45	05/05/22 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 15:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 11:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.016	0.0055	mg/Kg	⊛	05/09/22 14:40	05/10/22 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26	*-	0.26	0.13	mg/Kg	⊛	05/10/22 11:45	05/10/22 16:18	1
pH	8.4		0.2	0.2	SU			05/03/22 21:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B03

Lab Sample ID: 500-215773-3

Date Collected: 04/27/22 09:20

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Acetone	0.017	J *	0.019	0.0082	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Carbon tetrachloride	<0.0019	*+	0.0019	0.00055	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Dibromochloromethane	<0.0019	*+	0.0019	0.00062	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Tetrachloroethene	0.00066	J *	0.0019	0.00064	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/28/22 18:22	05/05/22 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	04/28/22 18:22	05/05/22 16:57	1
4-Bromofluorobenzene (Surr)	84		75 - 131	04/28/22 18:22	05/05/22 16:57	1
Dibromofluoromethane	130	S1+	75 - 126	04/28/22 18:22	05/05/22 16:57	1
Toluene-d8 (Surr)	124		75 - 124	04/28/22 18:22	05/05/22 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	✳	05/10/22 08:04	05/11/22 15:51	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	✳	05/10/22 08:04	05/11/22 15:51	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	✳	05/10/22 08:04	05/11/22 15:51	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	✳	05/10/22 08:04	05/11/22 15:51	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	✳	05/10/22 08:04	05/11/22 15:51	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B03

Lab Sample ID: 500-215773-3

Date Collected: 04/27/22 09:20

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B03

Lab Sample ID: 500-215773-3

Date Collected: 04/27/22 09:20

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	05/10/22 08:04	05/11/22 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143				05/10/22 08:04	05/11/22 15:51	1
2-Fluorobiphenyl	55		43 - 145				05/10/22 08:04	05/11/22 15:51	1
2-Fluorophenol	83		31 - 166				05/10/22 08:04	05/11/22 15:51	1
Nitrobenzene-d5 (Surr)	52		37 - 147				05/10/22 08:04	05/11/22 15:51	1
Phenol-d5	79		30 - 153				05/10/22 08:04	05/11/22 15:51	1
Terphenyl-d14 (Surr)	135		42 - 157				05/10/22 08:04	05/11/22 15:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.24	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Arsenic	7.9		0.61	0.21	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Barium	150		0.61	0.070	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Beryllium	0.91		0.25	0.057	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Boron	3.5		3.1	0.29	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Calcium	1500	B	12	2.1	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Chromium	19	B	0.61	0.30	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Cobalt	11		0.31	0.080	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Copper	16	B	0.61	0.17	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Iron	21000	B	12	6.4	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Lead	14		0.31	0.14	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Magnesium	3000	B	6.1	3.0	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Manganese	630	B	0.61	0.089	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Nickel	24		0.61	0.18	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Potassium	1100		31	11	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Silver	0.41		0.31	0.079	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Sodium	2600		61	9.1	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Thallium	0.55	J	0.61	0.31	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Vanadium	35		0.31	0.072	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1
Zinc	58		1.2	0.54	mg/Kg	☼	05/04/22 09:00	05/04/22 20:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/22 16:34	05/06/22 20:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:34	05/06/22 20:29	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:34	05/06/22 20:29	1
Iron	<0.40		0.40	0.20	mg/L		05/04/22 16:34	05/09/22 17:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B03

Lab Sample ID: 500-215773-3

Date Collected: 04/27/22 09:20

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:34	05/06/22 20:29	1
Manganese	0.012	J	0.025	0.010	mg/L		05/04/22 16:34	05/06/22 20:29	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:34	05/06/22 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.071		0.050	0.010	mg/L		05/04/22 16:45	05/05/22 14:08	1
Barium	1.4		0.50	0.050	mg/L		05/04/22 16:45	05/05/22 14:08	1
Beryllium	0.0095		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 14:08	1
Boron	0.13		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 14:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 14:08	1
Calcium	17		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 14:08	1
Chromium	0.20		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:08	1
Cobalt	0.053		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:08	1
Iron	220		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 14:08	1
Lead	0.082		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 14:08	1
Manganese	3.0		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:08	1
Nickel	0.19		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:08	1
Potassium	15		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 14:08	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 14:08	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:08	1
Zinc	0.57		0.50	0.020	mg/L		05/04/22 16:45	05/05/22 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 15:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 15:29	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		05/05/22 11:20	05/06/22 11:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.021	0.0069	mg/Kg	☆	05/09/22 14:40	05/10/22 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.29		0.28	0.14	mg/Kg	☆	05/11/22 13:12	05/11/22 16:04	1
pH	8.4		0.2	0.2	SU			05/03/22 21:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B04

Lab Sample ID: 500-215773-4

Date Collected: 04/27/22 09:30

Matrix: Solid

Date Received: 04/28/22 12:12

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	<0.0023		0.0023	0.00076	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
1,1-Dichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00080	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Acetone	<0.023	*1	0.023	0.0099	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Carbon tetrachloride	<0.0023	*+	0.0023	0.00066	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Chlorobenzene	<0.0023		0.0023	0.00084	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Chloroform	<0.0023		0.0023	0.00079	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Dibromochloromethane	<0.0023	*+	0.0023	0.00074	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Tetrachloroethene	<0.0023	*+	0.0023	0.00077	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00080	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Trichloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1
Xylenes, Total	<0.0045		0.0045	0.00073	mg/Kg	☼	04/28/22 18:22	05/05/22 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/28/22 18:22	05/05/22 17:21	1
4-Bromofluorobenzene (Surr)	83		75 - 131	04/28/22 18:22	05/05/22 17:21	1
Dibromofluoromethane	126		75 - 126	04/28/22 18:22	05/05/22 17:21	1
Toluene-d8 (Surr)	126	S1+	75 - 124	04/28/22 18:22	05/05/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B04

Lab Sample ID: 500-215773-4

Date Collected: 04/27/22 09:30

Matrix: Solid

Date Received: 04/28/22 12:12

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	☼	05/10/22 08:04	05/11/22 16:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2,4-Dichlorophenol	<0.40		0.40	0.094	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Acenaphthene	<0.040		0.040	0.0071	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Anthracene	<0.040		0.040	0.0066	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Benzo[a]anthracene	0.012	J	0.040	0.0054	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Benzo[a]pyrene	0.019	J	0.040	0.0077	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Benzo[b]fluoranthene	0.025	J	0.040	0.0086	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Chrysene	0.014	J	0.040	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Fluoranthene	0.032	J	0.040	0.0074	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/10/22 08:04	05/11/22 16:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B04

Lab Sample ID: 500-215773-4

Date Collected: 04/27/22 09:30

Matrix: Solid

Date Received: 04/28/22 12:12

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	✳	05/10/22 08:04	05/11/22 16:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
Phenanthrene	0.010	J	0.040	0.0055	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
Phenol	<0.20		0.20	0.088	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
Pyrene	0.022	J	0.040	0.0079	mg/Kg	✳	05/10/22 08:04	05/11/22 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		31 - 143				05/10/22 08:04	05/11/22 16:14	1
2-Fluorobiphenyl	61		43 - 145				05/10/22 08:04	05/11/22 16:14	1
2-Fluorophenol	81		31 - 166				05/10/22 08:04	05/11/22 16:14	1
Nitrobenzene-d5 (Surr)	51		37 - 147				05/10/22 08:04	05/11/22 16:14	1
Phenol-d5	74		30 - 153				05/10/22 08:04	05/11/22 16:14	1
Terphenyl-d14 (Surr)	117		42 - 157				05/10/22 08:04	05/11/22 16:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.22	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Arsenic	6.6		0.56	0.19	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Barium	87		0.56	0.064	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Beryllium	0.71		0.22	0.052	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Boron	3.6		2.8	0.26	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Cadmium	0.020	J B	0.11	0.020	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Calcium	16000	B	11	1.9	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Chromium	15	B	0.56	0.28	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Cobalt	9.0		0.28	0.074	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Copper	14	B	0.56	0.16	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Iron	17000	B	11	5.8	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Lead	14		0.28	0.13	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Magnesium	10000	B	5.6	2.8	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Manganese	510	B	0.56	0.081	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Nickel	20		0.56	0.16	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Potassium	1000		28	9.9	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Silver	0.35		0.28	0.072	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Sodium	94		56	8.3	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Thallium	<0.56		0.56	0.28	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Vanadium	29		0.28	0.066	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	1
Zinc	52		1.1	0.49	mg/Kg	✳	05/04/22 09:00	05/04/22 20:41	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		05/04/22 16:34	05/09/22 17:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:34	05/06/22 20:32	1
Manganese	0.32		0.025	0.010	mg/L		05/04/22 16:34	05/06/22 20:32	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Client Sample ID: 2773V2-88-B04

Lab Sample ID: 500-215773-4

Date Collected: 04/27/22 09:30

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	J	0.050	0.010	mg/L		05/04/22 16:45	05/05/22 14:11	1
Barium	0.35	J	0.50	0.050	mg/L		05/04/22 16:45	05/05/22 14:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 14:11	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 14:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 14:11	1
Calcium	15		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 14:11	1
Chromium	0.071		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:11	1
Cobalt	0.013	J	0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:11	1
Iron	66		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 14:11	1
Lead	0.026		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 14:11	1
Manganese	0.63		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:11	1
Nickel	0.058		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:11	1
Potassium	6.4		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 14:11	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 14:11	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 14:11	1
Zinc	0.20	J	0.50	0.020	mg/L		05/04/22 16:45	05/05/22 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 15:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 11:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0061	mg/Kg	⊛	05/09/22 14:40	05/10/22 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.24	J	0.28	0.14	mg/Kg	⊛	05/11/22 13:12	05/11/22 16:05	1
pH	7.7		0.2	0.2	SU			05/03/22 21:21	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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)

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215773-1

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 - AE7-059

Job ID: 500-215773-1


Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14
- 15

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey 500-215773 COC email cgrey@andrews-eng		Laboratory Lab Test America - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Dick Wright email richard.wright@testamericainc.com	Project Name <u>AE7-059A</u> Project No <u>PTB/WO #: 184-006/059A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>A. Buscastia / S. Khodaei</u>	COC No <u>1</u> of <u>1</u> Lab Job No. <u>500-215773</u> Sample Temp. <u>25.72 / 51.74</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

					ANALYSES															
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				
1	2773V2-88-B01	4/27	0900	S	X	X					X	X	X	X	X					
2	2773V2-88-B02	4/27	0910	S	X	X					X	X	X	X	X					
3	2773V2-88-B03	4/27	0920	S	X	X					X	X	X	X	X					
4	2773V2-88-B04	4/27	0930	S	X	X					X	X	X	X	X					
5	2773V2-88-B05-1	4/27	0940	S	X	X					X	X	X	X	X					
6	2773V2-88-B05-2	4/27	0950	S	X	X					X	X	X	X	X					
7	Trip Blank #3				X															

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

Relinquished by <u>[Signature]</u>	Date/Time <u>4/27/22</u> <u>1330</u>	Received by <u>[Signature]</u>	Date/Time <u>4/27/22</u> <u>1330</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/28/22</u> <u>1117</u>	Received by <u>[Signature]</u>	Date/Time <u>4/28/22</u> <u>1117</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/28/22</u> <u>1212</u>	Received by <u>[Signature]</u>	Date/Time <u>4/28/22</u> <u>1212</u>



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 3887 (IL 31) Office Phone Number, if available: _____

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

452-524 South State Street

City: Elgin State: IL Zip Code: 60123

County: Kane Township: Elgin

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

Latitude: 42.02388 Longitude: - 88.28309

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 2,229

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 2773V2-89-B01, 2773V2-89-B02, 2773V2-89-B03 AND 2773V2-89-B04 WERE SAMPLED ADJACENT TO SITE 2773V2-89. SEE TABLE 3c AND FIGURES 4 AND 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-215691-1.

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))

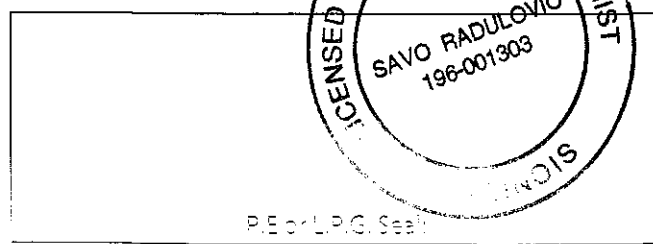
Company Name: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 28, 2022
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 2773V2-89
Residential Buildings

Sample ID	2773V2-89-B01	2773V2-89-B02	2773V2-89-B02 DUP	2773V2-89-B03	2773V2-89-B04	Maximum Allowable Concentration						
Sample Depth (ft)	0-8	0-8	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	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022							
PID	0	0	0	0	0							
Sample pH	7.8	8.5	8.3	8	8.1							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	ND	J 0.011	J 0.025	0.097	1,2	0.11	1,2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215691-1
Client Project/Site: IDOT - AE7-059

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
5/12/2022 5:41:28 PM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com

Designee for

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@et.eurofinsus.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 - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B01

Lab Sample ID: 500-215691-1

Date Collected: 04/26/22 12:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Acetone	<0.017		0.017	0.0075	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Chloromethane	<0.0043	*	0.0043	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	04/27/22 17:58	05/03/22 18:02	1
4-Bromofluorobenzene (Surr)	90		75 - 131	04/27/22 17:58	05/03/22 18:02	1
Dibromofluoromethane	112		75 - 126	04/27/22 17:58	05/03/22 18:02	1
Toluene-d8 (Surr)	91		75 - 124	04/27/22 17:58	05/03/22 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✳	05/08/22 08:54	05/09/22 18:19	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	05/08/22 08:54	05/09/22 18:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	05/08/22 08:54	05/09/22 18:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✳	05/08/22 08:54	05/09/22 18:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✳	05/08/22 08:54	05/09/22 18:19	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B01

Lab Sample ID: 500-215691-1

Date Collected: 04/26/22 12:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
3,3'-Dichlorobenzidine	<0.20	*3	0.20	0.055	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Benzo[a]anthracene	<0.039	*3	0.039	0.0052	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0075	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0084	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.011	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Bis(2-ethylhexyl) phthalate	<0.20	*3	0.20	0.071	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Butyl benzyl phthalate	<0.20	*3	0.20	0.074	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Chrysene	<0.039	*3	0.039	0.011	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☆	05/08/22 08:54	05/09/22 18:19	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B01

Lab Sample ID: 500-215691-1

Date Collected: 04/26/22 12:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
Pentachlorophenol	<0.79		0.79	0.62	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1
Pyrene	<0.039	*3	0.039	0.0077	mg/Kg	☼	05/08/22 08:54	05/09/22 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		31 - 143	05/08/22 08:54	05/09/22 18:19	1
2-Fluorobiphenyl	72		43 - 145	05/08/22 08:54	05/09/22 18:19	1
2-Fluorophenol	70		31 - 166	05/08/22 08:54	05/09/22 18:19	1
Nitrobenzene-d5 (Surr)	68		37 - 147	05/08/22 08:54	05/09/22 18:19	1
Phenol-d5	38		30 - 153	05/08/22 08:54	05/09/22 18:19	1
Terphenyl-d14 (Surr)	188	S1+ *3	42 - 157	05/08/22 08:54	05/09/22 18:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.22	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Arsenic	8.3		0.57	0.20	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Barium	110		0.57	0.065	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Beryllium	0.92		0.23	0.054	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Boron	3.2		2.9	0.27	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Cadmium	<0.11		0.11	0.021	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Calcium	1900		11	1.9	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Chromium	18	B ^2	0.57	0.28	mg/Kg	☼	05/03/22 09:07	05/04/22 22:01	1
Cobalt	11		0.29	0.075	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Copper	17		0.57	0.16	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Iron	21000	B	11	6.0	mg/Kg	☼	05/03/22 09:07	05/04/22 22:01	1
Lead	13		0.29	0.13	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Magnesium	3200		5.7	2.8	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Manganese	570	B	0.57	0.083	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Nickel	28		0.57	0.17	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Potassium	1000		29	10	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Selenium	0.43	J	0.57	0.34	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Silver	0.53		0.29	0.074	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Sodium	63		57	8.5	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Thallium	0.42	J	0.57	0.29	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Vanadium	32		0.29	0.068	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	1
Zinc	63		1.1	0.50	mg/Kg	☼	05/03/22 09:07	05/03/22 20:30	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		05/04/22 16:27	05/06/22 18:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 18:32	1
Manganese	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 18:32	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B01

Lab Sample ID: 500-215691-1

Date Collected: 04/26/22 12:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020	J	0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:22	1
Barium	0.41	J	0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:22	1
Boron	0.058	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:22	1
Calcium	9.5		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:22	1
Chromium	0.073		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:22	1
Cobalt	0.016	J	0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:22	1
Iron	78		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:22	1
Lead	0.024		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:22	1
Manganese	0.97		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:22	1
Nickel	0.070		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:22	1
Potassium	7.2		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:22	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:22	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:22	1
Zinc	0.26	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:12	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		05/05/22 11:20	05/06/22 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047	B	0.019	0.0065	mg/Kg	⊛	05/04/22 14:15	05/05/22 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	⊛	05/09/22 11:39	05/09/22 15:15	1
pH	7.8		0.2	0.2	SU			05/03/22 20:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B02

Lab Sample ID: 500-215691-2

Date Collected: 04/26/22 12:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 92.1

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	0.00057	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Acetone	<0.017		0.017	0.0074	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Chloromethane	<0.0043	*	0.0043	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	✳	04/27/22 17:58	05/03/22 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/27/22 17:58	05/03/22 18:29	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/27/22 17:58	05/03/22 18:29	1
Dibromofluoromethane	108		75 - 126	04/27/22 17:58	05/03/22 18:29	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/03/22 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
1,2-Dichlorobenzene	<0.17		0.17	0.042	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
1,4-Dichlorobenzene	<0.17		0.17	0.045	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B02

Lab Sample ID: 500-215691-2

Date Collected: 04/26/22 12:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.079	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2-Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.049	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.041	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Benzo[a]anthracene	0.011	J	0.035	0.0047	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Benzo[a]pyrene	0.011	J *3	0.035	0.0067	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Benzo[b]fluoranthene	0.015	J *3	0.035	0.0075	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Benzo[g,h,i]perylene	<0.035	*3	0.035	0.011	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Benzo[k]fluoranthene	0.010	J *3	0.035	0.010	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.064	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Carbazole	<0.17		0.17	0.087	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Chrysene	0.013	J	0.035	0.0095	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Dibenz(a,h)anthracene	<0.035	*3	0.035	0.0067	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Di-n-octyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Fluoranthene	0.030	J	0.035	0.0065	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Hexachlorobutadiene	<0.17		0.17	0.055	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	☼	05/08/22 08:54	05/09/22 18:41	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B02

Lab Sample ID: 500-215691-2

Date Collected: 04/26/22 12:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 92.1

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	<0.035	*3	0.035	0.0090	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
Isophorone	<0.17		0.17	0.039	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.043	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
Phenanthrene	0.011	J	0.035	0.0048	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
Phenol	<0.17		0.17	0.077	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
Pyrene	0.029	J	0.035	0.0069	mg/Kg	✳	05/08/22 08:54	05/09/22 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143				05/08/22 08:54	05/09/22 18:41	1
2-Fluorobiphenyl	86		43 - 145				05/08/22 08:54	05/09/22 18:41	1
2-Fluorophenol	106		31 - 166				05/08/22 08:54	05/09/22 18:41	1
Nitrobenzene-d5 (Surr)	69		37 - 147				05/08/22 08:54	05/09/22 18:41	1
Phenol-d5	35		30 - 153				05/08/22 08:54	05/09/22 18:41	1
Terphenyl-d14 (Surr)	162	S1+	42 - 157				05/08/22 08:54	05/09/22 18:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.0	0.20	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Arsenic	4.0		0.51	0.17	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Barium	26		1.0	0.12	mg/Kg	✳	05/03/22 09:07	05/04/22 22:04	2
Beryllium	0.29		0.20	0.048	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Boron	5.0		2.5	0.24	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Cadmium	0.082	J B	0.10	0.018	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Calcium	120000	B	51	8.6	mg/Kg	✳	05/03/22 09:07	05/04/22 22:07	5
Chromium	6.5	B	0.53	0.26	mg/Kg	✳	05/06/22 09:15	05/06/22 21:51	1
Cobalt	3.8		0.25	0.067	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Copper	11		0.51	0.14	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Iron	9300	B	20	11	mg/Kg	✳	05/03/22 09:07	05/04/22 22:04	2
Lead	7.4		0.25	0.12	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Magnesium	56000	B	10	5.1	mg/Kg	✳	05/03/22 09:07	05/04/22 22:04	2
Manganese	270	B	0.51	0.074	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Nickel	9.3		0.51	0.15	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Potassium	630		25	9.0	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Selenium	<0.51		0.51	0.30	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Silver	0.072	J	0.25	0.066	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Sodium	200		51	7.5	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Thallium	<0.51		0.51	0.25	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Vanadium	11		0.25	0.060	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	1
Zinc	30		1.0	0.45	mg/Kg	✳	05/03/22 09:07	05/03/22 20:34	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		05/04/22 16:27	05/06/22 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 18:46	1
Manganese	0.80		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 18:46	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B02

Lab Sample ID: 500-215691-2

Date Collected: 04/26/22 12:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 92.1

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		05/04/22 16:41	05/05/22 19:25	1
Barium	0.13	J	0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:25	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:25	1
Calcium	13		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:25	1
Chromium	0.026		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:25	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:25	1
Iron	23		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:25	1
Lead	0.015		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:25	1
Manganese	0.27		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:25	1
Nickel	0.018	J	0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:25	1
Potassium	4.8		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:25	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:25	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:25	1
Zinc	0.11	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:15	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		05/05/22 11:20	05/06/22 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	B	0.018	0.0058	mg/Kg	⊛	05/04/22 14:15	05/05/22 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	⊛	05/09/22 11:39	05/09/22 15:19	1
pH	8.5		0.2	0.2	SU			05/02/22 15:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B02 Dup

Lab Sample ID: 500-215691-3

Date Collected: 04/26/22 12:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Acetone	<0.016		0.016	0.0072	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Chloromethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	04/27/22 17:58	05/03/22 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/27/22 17:58	05/03/22 18:54	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/27/22 17:58	05/03/22 18:54	1
Dibromofluoromethane	112		75 - 126	04/27/22 17:58	05/03/22 18:54	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/03/22 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B02 Dup

Lab Sample ID: 500-215691-3

Date Collected: 04/26/22 12:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Anthracene	0.0072	J	0.035	0.0059	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Benzo[a]anthracene	0.028	J	0.035	0.0047	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Benzo[a]pyrene	0.025	J	0.035	0.0068	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Benzo[b]fluoranthene	0.033	J	0.035	0.0076	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Benzo[g,h,i]perylene	0.019	J	0.035	0.011	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Benzo[k]fluoranthene	0.015	J	0.035	0.010	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Chrysene	0.034	J	0.035	0.0096	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Fluoranthene	0.086		0.035	0.0065	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	05/08/22 08:54	05/11/22 15:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B02 Dup

Lab Sample ID: 500-215691-3

Date Collected: 04/26/22 12:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 89.1

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	0.016	J	0.035	0.0091	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
Isophorone	<0.18		0.18	0.040	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
Phenanthrene	0.042		0.035	0.0049	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
Phenol	<0.18		0.18	0.078	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
Pyrene	0.062		0.035	0.0070	mg/Kg	✳	05/08/22 08:54	05/11/22 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		31 - 143				05/08/22 08:54	05/11/22 15:58	1
2-Fluorobiphenyl	86		43 - 145				05/08/22 08:54	05/11/22 15:58	1
2-Fluorophenol	132		31 - 166				05/08/22 08:54	05/11/22 15:58	1
Nitrobenzene-d5 (Surr)	68		37 - 147				05/08/22 08:54	05/11/22 15:58	1
Phenol-d5	104		30 - 153				05/08/22 08:54	05/11/22 15:58	1
Terphenyl-d14 (Surr)	96		42 - 157				05/08/22 08:54	05/11/22 15:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.21	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Arsenic	5.0		0.55	0.19	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Barium	45		0.55	0.063	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Beryllium	0.44		0.22	0.051	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Boron	4.8		2.8	0.26	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Cadmium	0.10	J B	0.11	0.020	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Calcium	66000	B	22	3.7	mg/Kg	✳	05/03/22 09:07	05/04/22 22:11	2
Chromium	10	B ^2	1.1	0.54	mg/Kg	✳	05/03/22 09:07	05/04/22 22:11	2
Cobalt	5.3		0.28	0.072	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Copper	14		0.55	0.15	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Iron	12000	B	22	11	mg/Kg	✳	05/03/22 09:07	05/04/22 22:11	2
Lead	15		0.28	0.13	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Magnesium	32000		5.5	2.7	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Manganese	350	B	0.55	0.080	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Nickel	14		0.55	0.16	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Potassium	780		28	9.7	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Selenium	<0.55		0.55	0.32	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Silver	0.15	J	0.28	0.071	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Sodium	220		55	8.1	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Thallium	<0.55		0.55	0.27	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Vanadium	16		0.28	0.065	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	1
Zinc	43		1.1	0.48	mg/Kg	✳	05/03/22 09:07	05/03/22 20:37	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		05/04/22 16:27	05/06/22 18:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 18:49	1
Manganese	0.98		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 18:49	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B02 Dup

Lab Sample ID: 500-215691-3

Date Collected: 04/26/22 12:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:29	1
Barium	0.25	J	0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:29	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:29	1
Calcium	17		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:29	1
Chromium	0.048		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:29	1
Cobalt	0.012	J	0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:29	1
Iron	49		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:29	1
Lead	0.036		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:29	1
Manganese	0.62		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:29	1
Nickel	0.041		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:29	1
Potassium	6.4		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:29	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:29	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:29	1
Zinc	0.25	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 10:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	B	0.018	0.0059	mg/Kg	⊛	05/04/22 14:15	05/05/22 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	⊛	05/09/22 11:39	05/09/22 15:21	1
pH	8.3		0.2	0.2	SU			05/02/22 15:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B03

Lab Sample ID: 500-215691-4

Date Collected: 04/26/22 12:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 89.5

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	0.00054	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Chloromethane	<0.0040	*	0.0040	0.0016	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	04/27/22 17:58	05/03/22 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	04/27/22 17:58	05/03/22 19:21	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/27/22 17:58	05/03/22 19:21	1
Dibromofluoromethane	111		75 - 126	04/27/22 17:58	05/03/22 19:21	1
Toluene-d8 (Surr)	93		75 - 124	04/27/22 17:58	05/03/22 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B03

Lab Sample ID: 500-215691-4

Date Collected: 04/26/22 12:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2,4-Dinitrophenol	<0.73		0.73	0.63	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2-Methylnaphthalene	<0.073		0.073	0.0066	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Acenaphthylene	0.011	J	0.036	0.0048	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Anthracene	0.016	J	0.036	0.0060	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Benzo[a]anthracene	0.087		0.036	0.0049	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Benzo[a]pyrene	0.097		0.036	0.0070	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Benzo[b]fluoranthene	0.11		0.036	0.0078	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Benzo[g,h,i]perylene	0.065		0.036	0.012	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Benzo[k]fluoranthene	0.048		0.036	0.011	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Chrysene	0.092		0.036	0.0098	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Dibenz(a,h)anthracene	0.014	J	0.036	0.0070	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Fluoranthene	0.19		0.036	0.0067	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	05/08/22 08:54	05/11/22 16:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B03

Lab Sample ID: 500-215691-4

Date Collected: 04/26/22 12:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 89.5

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	0.059		0.036	0.0093	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
Isophorone	<0.18		0.18	0.040	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
Phenanthrene	0.064		0.036	0.0050	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
Phenol	<0.18		0.18	0.080	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
Pyrene	0.14		0.036	0.0072	mg/Kg	✳	05/08/22 08:54	05/11/22 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		31 - 143				05/08/22 08:54	05/11/22 16:23	1
2-Fluorobiphenyl	74		43 - 145				05/08/22 08:54	05/11/22 16:23	1
2-Fluorophenol	116		31 - 166				05/08/22 08:54	05/11/22 16:23	1
Nitrobenzene-d5 (Surr)	58		37 - 147				05/08/22 08:54	05/11/22 16:23	1
Phenol-d5	83		30 - 153				05/08/22 08:54	05/11/22 16:23	1
Terphenyl-d14 (Surr)	83		42 - 157				05/08/22 08:54	05/11/22 16:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.1	0.21	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Arsenic	4.1		0.54	0.19	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Barium	47		1.1	0.12	mg/Kg	✳	05/03/22 09:07	05/04/22 22:14	2
Beryllium	0.39		0.22	0.051	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Boron	3.7		2.7	0.25	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Cadmium	0.10	J B	0.11	0.020	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Calcium	88000	B	54	9.2	mg/Kg	✳	05/03/22 09:07	05/04/22 22:17	5
Chromium	7.6	B	0.55	0.27	mg/Kg	✳	05/06/22 09:15	05/06/22 22:04	1
Cobalt	4.5		0.27	0.071	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Copper	11		0.54	0.15	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Iron	10000	B	22	11	mg/Kg	✳	05/03/22 09:07	05/04/22 22:14	2
Lead	12		0.27	0.13	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Magnesium	43000	B	11	5.4	mg/Kg	✳	05/03/22 09:07	05/04/22 22:14	2
Manganese	350	B	0.54	0.079	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Nickel	10		0.54	0.16	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Potassium	640		27	9.6	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Silver	0.14	J	0.27	0.070	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Sodium	250		54	8.1	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Thallium	<0.54		0.54	0.27	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Vanadium	15		0.27	0.064	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	1
Zinc	35		1.1	0.48	mg/Kg	✳	05/03/22 09:07	05/03/22 20:40	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		05/04/22 16:27	05/06/22 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 18:59	1
Manganese	1.7		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 18:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B03

Lab Sample ID: 500-215691-4

Date Collected: 04/26/22 12:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017	J	0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:32	1
Barium	0.38	J	0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:32	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:32	1
Calcium	20		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:32	1
Chromium	0.064		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:32	1
Cobalt	0.016	J	0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:32	1
Iron	63		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:32	1
Lead	0.056		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:32	1
Manganese	0.78		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:32	1
Nickel	0.057		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:32	1
Potassium	7.8		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:32	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:32	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:32	1
Zinc	0.22	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:29	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		05/05/22 11:20	05/06/22 10:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032	B	0.018	0.0061	mg/Kg	⊛	05/04/22 14:15	05/05/22 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	⊛	05/09/22 11:39	05/09/22 15:23	1
pH	8.0		0.2	0.2	SU			05/02/22 15:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B04

Lab Sample ID: 500-215691-5

Date Collected: 04/26/22 12:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 86.2

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	✳	04/27/22 17:58	05/03/22 19:46	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Acetone	<0.016		0.016	0.0068	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Chloromethane	<0.0039	*	0.0039	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/27/22 17:58	05/03/22 19:46	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/27/22 17:58	05/03/22 19:46	1
Dibromofluoromethane	114		75 - 126	04/27/22 17:58	05/03/22 19:46	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/03/22 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✳	05/08/22 08:54	05/11/22 16:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✳	05/08/22 08:54	05/11/22 16:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	05/08/22 08:54	05/11/22 16:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	05/08/22 08:54	05/11/22 16:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	05/08/22 08:54	05/11/22 16:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B04

Lab Sample ID: 500-215691-5

Date Collected: 04/26/22 12:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Acenaphthylene	0.011	J	0.038	0.0051	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Anthracene	0.022	J	0.038	0.0064	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Benzo[a]anthracene	0.095		0.038	0.0052	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Benzo[a]pyrene	0.11		0.038	0.0074	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Benzo[b]fluoranthene	0.13		0.038	0.0083	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Benzo[g,h,i]perylene	0.048		0.038	0.012	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Benzo[k]fluoranthene	0.051		0.038	0.011	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Chrysene	0.11		0.038	0.010	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Dibenz(a,h)anthracene	0.014	J	0.038	0.0074	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Fluoranthene	0.23		0.038	0.0071	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Fluorene	0.0054	J	0.038	0.0054	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/08/22 08:54	05/11/22 16:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B04

Lab Sample ID: 500-215691-5

Date Collected: 04/26/22 12:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 86.2

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	0.045		0.038	0.0099	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
Phenanthrene	0.093		0.038	0.0053	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
Phenol	<0.19		0.19	0.085	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
Pyrene	0.18		0.038	0.0076	mg/Kg	✱	05/08/22 08:54	05/11/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		31 - 143				05/08/22 08:54	05/11/22 16:48	1
2-Fluorobiphenyl	84		43 - 145				05/08/22 08:54	05/11/22 16:48	1
2-Fluorophenol	118		31 - 166				05/08/22 08:54	05/11/22 16:48	1
Nitrobenzene-d5 (Surr)	66		37 - 147				05/08/22 08:54	05/11/22 16:48	1
Phenol-d5	91		30 - 153				05/08/22 08:54	05/11/22 16:48	1
Terphenyl-d14 (Surr)	97		42 - 157				05/08/22 08:54	05/11/22 16:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Arsenic	5.6		0.55	0.19	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Barium	47		0.55	0.063	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Beryllium	0.43		0.22	0.052	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Boron	3.7		2.8	0.26	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Cadmium	0.086	J B	0.11	0.020	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Calcium	78000		55	9.4	mg/Kg	✱	05/03/22 09:07	05/05/22 12:53	5
Chromium	11	B ^2	1.1	0.55	mg/Kg	✱	05/03/22 09:07	05/04/22 22:21	2
Cobalt	5.4		0.28	0.072	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Copper	14		0.55	0.15	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Iron	13000	B	22	11	mg/Kg	✱	05/03/22 09:07	05/04/22 22:21	2
Lead	14		0.28	0.13	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Magnesium	31000		5.5	2.7	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Manganese	400	B	0.55	0.080	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Nickel	13		0.55	0.16	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Potassium	740		28	9.8	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Selenium	<0.55		0.55	0.32	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Silver	0.13	J	0.28	0.071	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Sodium	650		55	8.2	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Thallium	<0.55		0.55	0.28	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Vanadium	17		0.28	0.065	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1
Zinc	40		1.1	0.49	mg/Kg	✱	05/03/22 09:07	05/03/22 20:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20	J B	0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 19:02	1
Manganese	0.89		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Client Sample ID: 2773V2-89-B04

Lab Sample ID: 500-215691-5

Date Collected: 04/26/22 12:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.016	J	0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:13	1
Barium	0.34	J	0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:13	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:13	1
Calcium	17		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:13	1
Chromium	0.062		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:13	1
Cobalt	0.015	J	0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:13	1
Iron	64		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:13	1
Lead	0.046		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:13	1
Manganese	0.85		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:13	1
Nickel	0.057		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:13	1
Potassium	7.8		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:13	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:13	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:13	1
Zinc	0.21	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:02	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		05/05/22 11:20	05/06/22 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	B	0.018	0.0061	mg/Kg	⊛	05/04/22 14:15	05/05/22 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	⊛	05/09/22 11:39	05/09/22 15:24	1
pH	8.1		0.2	0.2	SU			05/02/22 15:23	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215691-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*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.
S1+	Surrogate recovery exceeds control limits, high biased.

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.
¤	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 - AE7-059

Job ID: 500-215691-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	 500-215691 COC	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@testamericainc.com</u>	Project Name <u>A37-059A</u> Project No <u>PTB/WO:184-006/059A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>A. Buscaglia / S. Khodaei</u>	COC No <u>1</u> of <u>1</u> Lab Job No <u>500-215691</u> Sample Temp <u>34.724</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				
1	2773V2-89-B01	4/26	1250	S	X	X					X	X	X	X	X					
2	2773V2-89-B02	4/26	1230	↓	↓	↓					↓	↓	↓	↓	↓					
3	2773V2-89-B02 DUP	4/26	1240	↓	↓	↓					↓	↓	↓	↓	↓					
4	2773V2-89-B03	4/26	1220	↓	↓	↓					↓	↓	↓	↓	↓					
5	2773V2-89-B04	4/26	1210	↓	↓	↓					↓	↓	↓	↓	↓					

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

Relinquished by <u>Sauki</u>	Date/Time <u>4/26 1530</u>	Received by <u>[Signature]</u>	Date/Time <u>4/26 1530</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/27 9:25AM</u>	Received by <u>[Signature]</u>	Date/Time <u>4/27 0905</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/27/22 1155</u>	Received by <u>[Signature]</u>	Date/Time <u>4/27/22 1155</u>



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 3887 (IL 31) Office Phone Number, if available: _____

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

437-565 South State Street (northeast quadrant of US 20 and State Street)

City: Elgin State: IL Zip Code: 60123

County: Kane Township: Elgin

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

Latitude: 42.02352 Longitude: - 88.28282

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 355

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 2773V2-91-B01, 2773V2-91-B02, 2773V2-91-B03, 2773V2-91-B04, 2773V2-91-B05 AND 2773V2-91-B06 WERE SAMPLED ADJACENT TO SITE 2773V2-91. SEE TABLE 3d AND FIGURES 4 AND 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-215692-1.

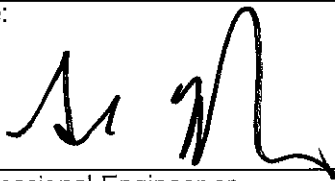
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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))

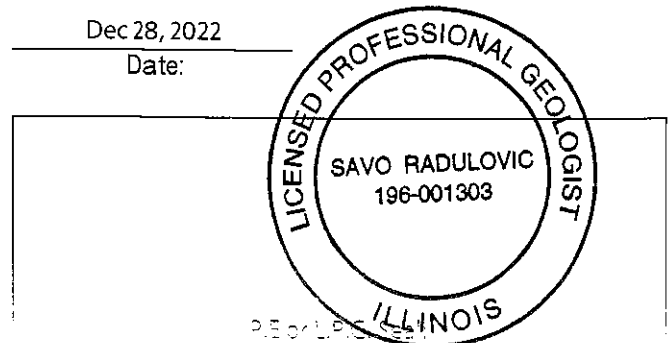
Company Name: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name: _____



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 28, 2022
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 2773V2-91
Residential Buildings

Sample ID	2773V2-91-B01-1	2773V2-91-B01-2	2773V2-91-B02	2773V2-91-B03	2773V2-91-B04	Maximum Allowable Concentration				
Sample Depth (ft)	0-5	5-10	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	4/26/2022	4/26/2022	4/26/2022	4/26/2022	4/26/2022					
PID	0	0	0	0	0					
Sample pH	7.4	7.2	7.9	7.7	7.5					
Matrix	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	0.065	J 0.036	ND	J 0.011	J 0.014	0.09	0.09	0.98	1.3	2.1

Sample ID	2773V2-91-B05	2773V2-91-B06	2773V2-91-B06 DUP	Maximum Allowable Concentration						
Sample Depth (ft)	0-8	0-6	0-6	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area		
Sample Date	4/26/2022	4/26/2022	4/26/2022							
PID	0	0	0							
Sample pH	7.5	7.2	7.1							
Matrix	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	ND	0.11	1,2	0.096	1,2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215692-1
Client Project/Site: IDOT - AE7-059

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
5/11/2022 4:58:45 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@et.eurofinsus.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 - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B01-1

Lab Sample ID: 500-215692-1

Date Collected: 04/26/22 10:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Trichloroethene	<0.0019	+	0.0019	0.00064	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	04/27/22 17:58	05/05/22 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/27/22 17:58	05/05/22 13:57	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/27/22 17:58	05/05/22 13:57	1
Dibromofluoromethane	109		75 - 126	04/27/22 17:58	05/05/22 13:57	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/05/22 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/09/22 13:23	05/10/22 19:08	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/09/22 13:23	05/10/22 19:08	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/09/22 13:23	05/10/22 19:08	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/09/22 13:23	05/10/22 19:08	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/09/22 13:23	05/10/22 19:08	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B01-1

Lab Sample ID: 500-215692-1

Date Collected: 04/26/22 10:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Acenaphthylene	0.0078	J	0.041	0.0054	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Benzo[a]anthracene	0.039	J	0.041	0.0055	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Benzo[a]pyrene	0.065		0.041	0.0080	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Benzo[b]fluoranthene	0.095		0.041	0.0089	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Benzo[g,h,i]perylene	0.019	J	0.041	0.013	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Benzo[k]fluoranthene	0.034	J	0.041	0.012	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Chrysene	0.050		0.041	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Dibenz(a,h)anthracene	0.0083	J	0.041	0.0080	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Fluoranthene	0.10		0.041	0.0076	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☆	05/09/22 13:23	05/10/22 19:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B01-1

Lab Sample ID: 500-215692-1

Date Collected: 04/26/22 10:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.4

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	0.024	J	0.041	0.011	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
Phenanthrene	0.031	J	0.041	0.0057	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
Phenol	<0.21		0.21	0.092	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
Pyrene	0.083		0.041	0.0082	mg/Kg	✳	05/09/22 13:23	05/10/22 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		31 - 143				05/09/22 13:23	05/10/22 19:08	1
2-Fluorobiphenyl	66		43 - 145				05/09/22 13:23	05/10/22 19:08	1
2-Fluorophenol	85		31 - 166				05/09/22 13:23	05/10/22 19:08	1
Nitrobenzene-d5 (Surr)	60		37 - 147				05/09/22 13:23	05/10/22 19:08	1
Phenol-d5	72		30 - 153				05/09/22 13:23	05/10/22 19:08	1
Terphenyl-d14 (Surr)	126		42 - 157				05/09/22 13:23	05/10/22 19:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.22	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Arsenic	7.7		0.58	0.20	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Barium	120		0.58	0.066	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Beryllium	0.84		0.23	0.054	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Boron	2.8	J	2.9	0.27	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Cadmium	0.025	J B	0.12	0.021	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Calcium	2300		12	2.0	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Chromium	19	B	0.58	0.29	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Cobalt	10		0.29	0.075	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Copper	16		0.58	0.16	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Iron	20000	B	12	6.0	mg/Kg	✳	05/03/22 09:07	05/04/22 21:25	1
Lead	23		0.29	0.13	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Magnesium	3400		5.8	2.9	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Manganese	600	B	0.58	0.083	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Nickel	21		0.58	0.17	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Potassium	990		29	10	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Selenium	0.40	J	0.58	0.34	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Silver	0.36		0.29	0.074	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Sodium	420		58	8.5	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Thallium	0.63		0.58	0.29	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Vanadium	33		0.29	0.068	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1
Zinc	62		1.2	0.51	mg/Kg	✳	05/03/22 09:07	05/03/22 19:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:27	05/06/22 19:05	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:05	1
Iron	0.71	B	0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 19:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B01-1

Lab Sample ID: 500-215692-1

Date Collected: 04/26/22 10:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.038		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:05	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.048	J	0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:35	1
Barium	0.85		0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:35	1
Beryllium	0.0065		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:35	1
Boron	0.062	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:35	1
Calcium	19		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:35	1
Chromium	0.15		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:35	1
Cobalt	0.037		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:35	1
Iron	150		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:35	1
Lead	0.11		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:35	1
Manganese	2.2		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:35	1
Nickel	0.12		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:35	1
Potassium	11		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:35	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:35	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:35	1
Zinc	0.48	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:32	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		05/05/22 11:20	05/06/22 10:11	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	☆	05/05/22 15:55	05/06/22 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.15	mg/Kg	☆	05/09/22 11:39	05/09/22 15:12	1
pH	7.4		0.2	0.2	SU			05/03/22 20:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B01-2

Lab Sample ID: 500-215692-2

Date Collected: 04/26/22 11:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Acetone	<0.020		0.020	0.0088	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Trichloroethene	<0.0020	+	0.0020	0.00069	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	✳	04/27/22 17:58	05/05/22 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/27/22 17:58	05/05/22 14:23	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/27/22 17:58	05/05/22 14:23	1
Dibromofluoromethane	109		75 - 126	04/27/22 17:58	05/05/22 14:23	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/05/22 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	✳	05/09/22 13:23	05/10/22 19:31	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	✳	05/09/22 13:23	05/10/22 19:31	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	✳	05/09/22 13:23	05/10/22 19:31	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	05/09/22 13:23	05/10/22 19:31	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✳	05/09/22 13:23	05/10/22 19:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B01-2

Lab Sample ID: 500-215692-2

Date Collected: 04/26/22 11:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2-Methylnaphthalene	<0.084		0.084	0.0076	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Benzo[a]anthracene	0.023	J	0.041	0.0056	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Benzo[a]pyrene	0.036	J	0.041	0.0080	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Benzo[b]fluoranthene	0.052		0.041	0.0089	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Benzo[k]fluoranthene	0.018	J	0.041	0.012	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Chrysene	0.030	J	0.041	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Fluoranthene	0.063		0.041	0.0077	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☆	05/09/22 13:23	05/10/22 19:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B01-2

Lab Sample ID: 500-215692-2

Date Collected: 04/26/22 11:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.0

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	0.012	J	0.041	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
Phenanthrene	0.024	J	0.041	0.0058	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
Pyrene	0.051		0.041	0.0082	mg/Kg	☼	05/09/22 13:23	05/10/22 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		31 - 143				05/09/22 13:23	05/10/22 19:31	1
2-Fluorobiphenyl	72		43 - 145				05/09/22 13:23	05/10/22 19:31	1
2-Fluorophenol	90		31 - 166				05/09/22 13:23	05/10/22 19:31	1
Nitrobenzene-d5 (Surr)	71		37 - 147				05/09/22 13:23	05/10/22 19:31	1
Phenol-d5	76		30 - 153				05/09/22 13:23	05/10/22 19:31	1
Terphenyl-d14 (Surr)	133		42 - 157				05/09/22 13:23	05/10/22 19:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.23	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Arsenic	8.0		0.59	0.20	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Barium	100		0.59	0.067	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Beryllium	0.91		0.23	0.055	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Boron	2.9		2.9	0.27	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Cadmium	0.034	J B	0.12	0.021	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Calcium	1700		12	2.0	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Chromium	17	B	0.59	0.29	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Cobalt	12		0.29	0.077	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Copper	17		0.59	0.16	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Iron	20000	B	12	6.1	mg/Kg	☼	05/03/22 09:07	05/04/22 21:28	1
Lead	33		0.29	0.14	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Magnesium	3000		5.9	2.9	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Manganese	590	B	0.59	0.085	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Nickel	27		0.59	0.17	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Potassium	900		29	10	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Selenium	0.34	J	0.59	0.34	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Silver	0.52		0.29	0.076	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Sodium	360		59	8.7	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Vanadium	32		0.29	0.069	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1
Zinc	70		1.2	0.51	mg/Kg	☼	05/03/22 09:07	05/03/22 20:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/22 16:27	05/06/22 19:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:27	05/06/22 19:09	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:09	1
Iron	<0.40		0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:09	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B01-2

Lab Sample ID: 500-215692-2

Date Collected: 04/26/22 11:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.0

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		05/04/22 16:27	05/06/22 19:09	1
Manganese	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:09	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.053		0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:45	1
Barium	0.79		0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:45	1
Beryllium	0.0072		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:45	1
Boron	0.071	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:45	1
Calcium	15		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:45	1
Chromium	0.14		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:45	1
Cobalt	0.038		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:45	1
Iron	160		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:45	1
Lead	0.087		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:45	1
Manganese	2.3		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:45	1
Nickel	0.15		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:45	1
Potassium	12		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:45	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:45	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:45	1
Zinc	0.46	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:36	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		05/05/22 11:20	05/06/22 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0062	mg/Kg	☆	05/05/22 15:55	05/06/22 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29	*-	0.29	0.15	mg/Kg	☆	05/10/22 11:45	05/10/22 15:08	1
pH	7.2		0.2	0.2	SU			05/03/22 20:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B02

Lab Sample ID: 500-215692-3

Date Collected: 04/26/22 11:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Acetone	<0.018		0.018	0.0081	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Trichloroethene	<0.0018	+	0.0018	0.00062	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	04/27/22 17:58	05/05/22 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/27/22 17:58	05/05/22 14:48	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/27/22 17:58	05/05/22 14:48	1
Dibromofluoromethane	113		75 - 126	04/27/22 17:58	05/05/22 14:48	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/05/22 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/09/22 13:23	05/10/22 18:33	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/09/22 13:23	05/10/22 18:33	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/09/22 13:23	05/10/22 18:33	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	05/09/22 13:23	05/10/22 18:33	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/09/22 13:23	05/10/22 18:33	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B02

Lab Sample ID: 500-215692-3

Date Collected: 04/26/22 11:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☆	05/09/22 13:23	05/10/22 18:33	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B02

Lab Sample ID: 500-215692-3

Date Collected: 04/26/22 11:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
Phenol	<0.21		0.21	0.091	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	✳	05/09/22 13:23	05/10/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		31 - 143				05/09/22 13:23	05/10/22 18:33	1
2-Fluorobiphenyl	81		43 - 145				05/09/22 13:23	05/10/22 18:33	1
2-Fluorophenol	128		31 - 166				05/09/22 13:23	05/10/22 18:33	1
Nitrobenzene-d5 (Surr)	67		37 - 147				05/09/22 13:23	05/10/22 18:33	1
Phenol-d5	106		30 - 153				05/09/22 13:23	05/10/22 18:33	1
Terphenyl-d14 (Surr)	103		42 - 157				05/09/22 13:23	05/10/22 18:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.23	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Arsenic	8.5		0.59	0.20	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Barium	110		0.59	0.067	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Beryllium	0.92		0.24	0.055	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Boron	2.7	J	3.0	0.28	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Calcium	2000		12	2.0	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Chromium	19	B	0.59	0.29	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Cobalt	11		0.30	0.077	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Copper	20		0.59	0.17	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Iron	21000	B	12	6.1	mg/Kg	✳	05/03/22 09:07	05/04/22 21:31	1
Lead	15		0.30	0.14	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Magnesium	3500		5.9	2.9	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Manganese	640	B	0.59	0.086	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Nickel	28		0.59	0.17	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Potassium	950		30	10	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Selenium	0.43	J	0.59	0.35	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Silver	0.49		0.30	0.076	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Sodium	390		59	8.7	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Thallium	0.39	J	0.59	0.29	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Vanadium	34		0.30	0.070	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	1
Zinc	63		1.2	0.52	mg/Kg	✳	05/03/22 09:07	05/03/22 20:05	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		05/04/22 16:27	05/06/22 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:27	05/06/22 19:12	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:12	1
Iron	0.44	B	0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B02

Lab Sample ID: 500-215692-3

Date Collected: 04/26/22 11:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 19:12	1
Manganese	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:12	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:48	1
Barium	0.81		0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:48	1
Beryllium	0.0075		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:48	1
Boron	0.075	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:48	1
Calcium	18		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:48	1
Chromium	0.14		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:48	1
Cobalt	0.039		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:48	1
Iron	170		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:48	1
Lead	0.058		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:48	1
Manganese	2.3		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:48	1
Nickel	0.14		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:48	1
Potassium	12		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:48	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:48	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:48	1
Zinc	0.45	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 10:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0063	mg/Kg	☆	05/05/22 15:55	05/06/22 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29	*-	0.29	0.15	mg/Kg	☆	05/10/22 11:45	05/10/22 15:10	1
pH	7.9		0.2	0.2	SU			05/03/22 20:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B03

Lab Sample ID: 500-215692-4

Date Collected: 04/26/22 11:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Acetone	<0.019		0.019	0.0081	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Trichloroethene	<0.0019	*	0.0019	0.00063	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✳	04/27/22 17:58	05/05/22 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	04/27/22 17:58	05/05/22 15:14	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/27/22 17:58	05/05/22 15:14	1
Dibromofluoromethane	113		75 - 126	04/27/22 17:58	05/05/22 15:14	1
Toluene-d8 (Surr)	91		75 - 124	04/27/22 17:58	05/05/22 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	05/09/22 13:23	05/10/22 18:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✳	05/09/22 13:23	05/10/22 18:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	05/09/22 13:23	05/10/22 18:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	✳	05/09/22 13:23	05/10/22 18:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✳	05/09/22 13:23	05/10/22 18:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B03

Lab Sample ID: 500-215692-4

Date Collected: 04/26/22 11:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Benzo[a]anthracene	0.011 J		0.038	0.0052	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Benzo[a]pyrene	0.011 J		0.038	0.0075	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Benzo[b]fluoranthene	0.012 J		0.038	0.0083	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Chrysene	0.011 J		0.038	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Fluoranthene	0.025 J		0.038	0.0072	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B03

Lab Sample ID: 500-215692-4

Date Collected: 04/26/22 11:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Phenanthrene	0.012	J	0.038	0.0054	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Phenol	<0.19		0.19	0.086	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Pyrene	0.021	J	0.038	0.0077	mg/Kg	☆	05/09/22 13:23	05/10/22 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143				05/09/22 13:23	05/10/22 18:58	1
2-Fluorobiphenyl	82		43 - 145				05/09/22 13:23	05/10/22 18:58	1
2-Fluorophenol	116		31 - 166				05/09/22 13:23	05/10/22 18:58	1
Nitrobenzene-d5 (Surr)	67		37 - 147				05/09/22 13:23	05/10/22 18:58	1
Phenol-d5	104		30 - 153				05/09/22 13:23	05/10/22 18:58	1
Terphenyl-d14 (Surr)	102		42 - 157				05/09/22 13:23	05/10/22 18:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.1	0.22	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Arsenic	6.2		0.56	0.19	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Barium	71		0.56	0.064	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Beryllium	0.69		0.22	0.052	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Boron	2.6	J	2.8	0.26	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Cadmium	0.036	J B	0.11	0.020	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Calcium	12000		11	1.9	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Chromium	16	B ^2	1.1	0.56	mg/Kg	☆	05/03/22 09:07	05/04/22 21:34	2
Cobalt	8.9		0.28	0.074	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Copper	16		1.1	0.31	mg/Kg	☆	05/03/22 09:07	05/04/22 21:34	2
Iron	19000	B	22	12	mg/Kg	☆	05/03/22 09:07	05/04/22 21:34	2
Lead	12		0.28	0.13	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Magnesium	8500		5.6	2.8	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Manganese	440	B	0.56	0.081	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Nickel	31		0.56	0.16	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Potassium	840		28	9.9	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Silver	0.44	J	0.56	0.14	mg/Kg	☆	05/03/22 09:07	05/04/22 21:34	2
Sodium	190		56	8.3	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1
Vanadium	29		0.56	0.13	mg/Kg	☆	05/03/22 09:07	05/04/22 21:34	2
Zinc	58		1.1	0.49	mg/Kg	☆	05/03/22 09:07	05/03/22 20:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:27	05/06/22 19:15	1
Iron	<0.40		0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 19:15	1
Manganese	0.32		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B03

Lab Sample ID: 500-215692-4

Date Collected: 04/26/22 11:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.032	J	0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:51	1
Barium	0.54		0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:51	1
Beryllium	0.0048		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:51	1
Boron	0.067	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:51	1
Calcium	12		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:51	1
Chromium	0.089		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:51	1
Cobalt	0.023	J	0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:51	1
Iron	100		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:51	1
Lead	0.038		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:51	1
Manganese	1.4		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:51	1
Nickel	0.12		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:51	1
Potassium	12		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:51	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:51	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:51	1
Zinc	0.31	J	0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 10:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	☼	05/05/22 15:55	05/06/22 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29	*-	0.29	0.14	mg/Kg	☼	05/10/22 11:45	05/10/22 15:12	1
pH	7.7		0.2	0.2	SU			05/03/22 20:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B04

Lab Sample ID: 500-215692-5

Date Collected: 04/26/22 11:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Acetone	<0.019		0.019	0.0082	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Trichloroethene	<0.0019	+	0.0019	0.00064	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	✳	04/27/22 17:58	05/05/22 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/27/22 17:58	05/05/22 15:40	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/27/22 17:58	05/05/22 15:40	1
Dibromofluoromethane	110		75 - 126	04/27/22 17:58	05/05/22 15:40	1
Toluene-d8 (Surr)	93		75 - 124	04/27/22 17:58	05/05/22 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B04

Lab Sample ID: 500-215692-5

Date Collected: 04/26/22 11:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Benzo[a]anthracene	0.013	J	0.041	0.0055	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Benzo[a]pyrene	0.014	J	0.041	0.0079	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Benzo[b]fluoranthene	0.019	J	0.041	0.0089	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Chrysene	0.016	J	0.041	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Fluoranthene	0.030	J	0.041	0.0076	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☆	05/09/22 13:23	05/10/22 19:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B04

Lab Sample ID: 500-215692-5

Date Collected: 04/26/22 11:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.011	J	0.041	0.011	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
Phenanthrene	0.012	J	0.041	0.0057	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
Phenol	<0.21		0.21	0.091	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
Pyrene	0.023	J	0.041	0.0081	mg/Kg	✳	05/09/22 13:23	05/10/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		31 - 143				05/09/22 13:23	05/10/22 19:23	1
2-Fluorobiphenyl	74		43 - 145				05/09/22 13:23	05/10/22 19:23	1
2-Fluorophenol	105		31 - 166				05/09/22 13:23	05/10/22 19:23	1
Nitrobenzene-d5 (Surr)	61		37 - 147				05/09/22 13:23	05/10/22 19:23	1
Phenol-d5	77		30 - 153				05/09/22 13:23	05/10/22 19:23	1
Terphenyl-d14 (Surr)	100		42 - 157				05/09/22 13:23	05/10/22 19:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.23	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Arsenic	8.0		0.58	0.20	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Barium	110		0.58	0.066	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Beryllium	0.83		0.23	0.054	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Boron	2.2	J	2.9	0.27	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Calcium	2400		12	2.0	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Chromium	17	B	0.58	0.29	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Cobalt	11		0.29	0.076	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Copper	18		0.58	0.16	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Iron	20000	B	12	6.1	mg/Kg	✳	05/03/22 09:07	05/04/22 21:37	1
Lead	18		0.29	0.13	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Magnesium	3100		5.8	2.9	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Manganese	560	B	0.58	0.084	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Nickel	25		0.58	0.17	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Potassium	850		29	10	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Selenium	0.58		0.58	0.34	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Silver	0.48		0.29	0.075	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Sodium	740		58	8.6	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Thallium	0.35	J	0.58	0.29	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Vanadium	29		0.29	0.069	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1
Zinc	63		1.2	0.51	mg/Kg	✳	05/03/22 09:07	05/03/22 20:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/22 16:27	05/06/22 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:27	05/06/22 19:19	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:19	1
Iron	0.33	J B	0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:19	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B04

Lab Sample ID: 500-215692-5

Date Collected: 04/26/22 11:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:27	05/06/22 19:19	1
Manganese	0.037		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:19	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.080		0.050	0.010	mg/L		05/04/22 16:41	05/05/22 19:54	1
Barium	1.2		0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:54	1
Beryllium	0.010		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:54	1
Boron	0.083	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:54	1
Calcium	25		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:54	1
Chromium	0.19		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:54	1
Cobalt	0.057		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:54	1
Iron	230		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:54	1
Lead	0.10		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:54	1
Manganese	3.1		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:54	1
Nickel	0.22		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:54	1
Potassium	17		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:54	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:54	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:54	1
Zinc	0.66		0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:27	05/10/22 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:46	1
Thallium	0.0024		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0065	mg/Kg	⊛	05/05/22 15:55	05/06/22 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29	*-	0.29	0.15	mg/Kg	⊛	05/10/22 11:45	05/10/22 15:14	1
pH	7.5		0.2	0.2	SU			05/03/22 21:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B05

Lab Sample ID: 500-215692-6

Date Collected: 04/26/22 11:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Acetone	<0.020		0.020	0.0086	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Trichloroethene	<0.0020	*+	0.0020	0.00067	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☆	04/27/22 17:58	05/05/22 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/27/22 17:58	05/05/22 16:06	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/27/22 17:58	05/05/22 16:06	1
Dibromofluoromethane	111		75 - 126	04/27/22 17:58	05/05/22 16:06	1
Toluene-d8 (Surr)	90		75 - 124	04/27/22 17:58	05/05/22 16:06	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	☆	05/09/22 13:23	05/10/22 19:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B05

Lab Sample ID: 500-215692-6

Date Collected: 04/26/22 11:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/09/22 13:23	05/10/22 19:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B05

Lab Sample ID: 500-215692-6

Date Collected: 04/26/22 11:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
Phenol	<0.20		0.20	0.089	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☆	05/09/22 13:23	05/10/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		31 - 143				05/09/22 13:23	05/10/22 19:48	1
2-Fluorobiphenyl	79		43 - 145				05/09/22 13:23	05/10/22 19:48	1
2-Fluorophenol	103		31 - 166				05/09/22 13:23	05/10/22 19:48	1
Nitrobenzene-d5 (Surr)	64		37 - 147				05/09/22 13:23	05/10/22 19:48	1
Phenol-d5	77		30 - 153				05/09/22 13:23	05/10/22 19:48	1
Terphenyl-d14 (Surr)	102		42 - 157				05/09/22 13:23	05/10/22 19:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.23	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Arsenic	6.5		0.59	0.20	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Barium	83		0.59	0.067	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Beryllium	0.66		0.23	0.055	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Boron	3.0		2.9	0.27	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Calcium	2900		12	2.0	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Chromium	15	B	0.59	0.29	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Cobalt	9.4		0.29	0.077	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Copper	13		0.59	0.16	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Iron	16000	B	12	6.1	mg/Kg	☆	05/03/22 09:07	05/04/22 21:41	1
Lead	13		0.29	0.14	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Magnesium	3100		5.9	2.9	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Manganese	470	B	0.59	0.085	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Nickel	28		0.59	0.17	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Potassium	780		29	10	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Selenium	<0.59		0.59	0.34	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Silver	0.51		0.29	0.076	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Sodium	580		59	8.7	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Thallium	0.36	J	0.59	0.29	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Vanadium	26		0.29	0.069	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1
Zinc	53		1.2	0.51	mg/Kg	☆	05/03/22 09:07	05/03/22 20:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/22 16:27	05/06/22 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:27	05/06/22 19:22	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:22	1
Iron	0.27	J B	0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B05

Lab Sample ID: 500-215692-6

Date Collected: 04/26/22 11:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 82.1

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		05/04/22 16:27	05/06/22 19:22	1
Manganese	0.075		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:22	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:22	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		05/04/22 16:41	05/05/22 19:57	1
Barium	0.96		0.50	0.050	mg/L		05/04/22 16:41	05/05/22 19:57	1
Beryllium	0.0079		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 19:57	1
Boron	0.082	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 19:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 19:57	1
Calcium	20		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:57	1
Chromium	0.15		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:57	1
Cobalt	0.044		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:57	1
Iron	180		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 19:57	1
Lead	0.074		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 19:57	1
Manganese	2.3		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:57	1
Nickel	0.21		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:57	1
Potassium	13		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 19:57	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 19:57	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 19:57	1
Zinc	0.51		0.50	0.020	mg/L		05/04/22 16:41	05/05/22 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:27	05/10/22 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:50	1
Thallium	0.0021		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 10:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.0066	mg/Kg	✱	05/05/22 15:55	05/06/22 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28	*-	0.28	0.14	mg/Kg	✱	05/10/22 11:45	05/10/22 15:16	1
pH	7.5		0.2	0.2	SU			05/03/22 21:04	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B06

Lab Sample ID: 500-215692-7

Date Collected: 04/26/22 11:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Acetone	<0.021	*1	0.021	0.0091	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Carbon tetrachloride	<0.0021	*+	0.0021	0.00060	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Dibromochloromethane	<0.0021	*+	0.0021	0.00068	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Tetrachloroethene	<0.0021	*+	0.0021	0.00071	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	✳	04/27/22 17:58	05/05/22 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	04/27/22 17:58	05/05/22 16:08	1
4-Bromofluorobenzene (Surr)	83		75 - 131	04/27/22 17:58	05/05/22 16:08	1
Dibromofluoromethane	130	S1+	75 - 126	04/27/22 17:58	05/05/22 16:08	1
Toluene-d8 (Surr)	125	S1+	75 - 124	04/27/22 17:58	05/05/22 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	✳	05/09/22 13:23	05/10/22 20:12	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	✳	05/09/22 13:23	05/10/22 20:12	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	✳	05/09/22 13:23	05/10/22 20:12	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	05/09/22 13:23	05/10/22 20:12	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✳	05/09/22 13:23	05/10/22 20:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B06

Lab Sample ID: 500-215692-7

Date Collected: 04/26/22 11:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Acenaphthylene	0.023	J	0.041	0.0054	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Anthracene	0.019	J	0.041	0.0069	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Benzo[a]anthracene	0.086		0.041	0.0055	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Benzo[a]pyrene	0.11		0.041	0.0080	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Benzo[b]fluoranthene	0.13		0.041	0.0089	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Benzo[g,h,i]perylene	0.073		0.041	0.013	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Benzo[k]fluoranthene	0.061		0.041	0.012	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Chrysene	0.10		0.041	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Dibenz(a,h)anthracene	0.019	J	0.041	0.0079	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Fluoranthene	0.21		0.041	0.0076	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/09/22 13:23	05/10/22 20:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B06

Lab Sample ID: 500-215692-7

Date Collected: 04/26/22 11:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 78.7

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	0.065		0.041	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
Naphthalene	0.0079	J	0.041	0.0063	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
Phenanthrene	0.080		0.041	0.0057	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
Phenol	<0.21		0.21	0.091	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
Pyrene	0.18		0.041	0.0082	mg/Kg	☆	05/09/22 13:23	05/10/22 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		31 - 143				05/09/22 13:23	05/10/22 20:12	1
2-Fluorobiphenyl	74		43 - 145				05/09/22 13:23	05/10/22 20:12	1
2-Fluorophenol	113		31 - 166				05/09/22 13:23	05/10/22 20:12	1
Nitrobenzene-d5 (Surr)	61		37 - 147				05/09/22 13:23	05/10/22 20:12	1
Phenol-d5	94		30 - 153				05/09/22 13:23	05/10/22 20:12	1
Terphenyl-d14 (Surr)	95		42 - 157				05/09/22 13:23	05/10/22 20:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.23	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Arsenic	6.8		0.58	0.20	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Barium	150		0.58	0.066	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Beryllium	0.73		0.23	0.054	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Boron	3.3		2.9	0.27	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Cadmium	0.28	B	0.12	0.021	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Calcium	2900		12	2.0	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Chromium	17	B	0.58	0.29	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Cobalt	11		0.29	0.076	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Copper	16		0.58	0.16	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Iron	17000	B	12	6.0	mg/Kg	☆	05/03/22 09:07	05/04/22 21:44	1
Lead	30		0.29	0.13	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Magnesium	2800		5.8	2.9	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Manganese	850	B	0.58	0.084	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Nickel	17		0.58	0.17	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Potassium	1200		29	10	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Selenium	<0.58		0.58	0.34	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Silver	0.34		0.29	0.075	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Sodium	610		58	8.6	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Thallium	0.46	J	0.58	0.29	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Vanadium	29		0.29	0.068	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1
Zinc	67		1.2	0.51	mg/Kg	☆	05/03/22 09:07	05/03/22 20:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/22 16:27	05/06/22 19:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:27	05/06/22 19:25	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:25	1
Iron	0.26	J B	0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B06

Lab Sample ID: 500-215692-7

Date Collected: 04/26/22 11:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 78.7

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		05/04/22 16:27	05/06/22 19:25	1
Manganese	0.052		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:25	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.052		0.050	0.010	mg/L		05/04/22 16:41	05/05/22 20:00	1
Barium	1.0		0.50	0.050	mg/L		05/04/22 16:41	05/05/22 20:00	1
Beryllium	0.0066		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 20:00	1
Boron	0.073	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 20:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 20:00	1
Calcium	25		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 20:00	1
Chromium	0.15		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:00	1
Cobalt	0.036		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:00	1
Iron	160		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 20:00	1
Lead	0.13		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 20:00	1
Manganese	2.3		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:00	1
Nickel	0.11		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:00	1
Potassium	14		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 20:00	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 20:00	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:00	1
Zinc	0.53		0.50	0.020	mg/L		05/04/22 16:41	05/05/22 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 13:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 13:53	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		05/05/22 11:20	05/06/22 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.019	0.0064	mg/Kg	☆	05/05/22 15:55	05/06/22 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30	*-	0.30	0.15	mg/Kg	☆	05/10/22 11:45	05/10/22 15:17	1
pH	7.2		0.2	0.2	SU			05/03/22 21:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B06 Dup

Lab Sample ID: 500-215692-8

Date Collected: 04/26/22 12:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 79.0

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	✳	04/27/22 17:58	05/05/22 16:32	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Acetone	<0.018	*1	0.018	0.0079	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Carbon tetrachloride	<0.0018	*+	0.0018	0.00053	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Dibromochloromethane	<0.0018	*+	0.0018	0.00059	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Tetrachloroethene	<0.0018	*+	0.0018	0.00062	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	04/27/22 17:58	05/05/22 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	04/27/22 17:58	05/05/22 16:32	1
4-Bromofluorobenzene (Surr)	87		75 - 131	04/27/22 17:58	05/05/22 16:32	1
Dibromofluoromethane	128	S1+	75 - 126	04/27/22 17:58	05/05/22 16:32	1
Toluene-d8 (Surr)	129	S1+	75 - 124	04/27/22 17:58	05/05/22 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	✳	05/09/22 13:23	05/10/22 20:37	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	✳	05/09/22 13:23	05/10/22 20:37	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	✳	05/09/22 13:23	05/10/22 20:37	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	05/09/22 13:23	05/10/22 20:37	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✳	05/09/22 13:23	05/10/22 20:37	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B06 Dup

Lab Sample ID: 500-215692-8

Date Collected: 04/26/22 12:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Acenaphthylene	0.020	J	0.041	0.0054	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Anthracene	0.016	J	0.041	0.0069	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Benzo[a]anthracene	0.072		0.041	0.0056	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Benzo[a]pyrene	0.096		0.041	0.0080	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Benzo[b]fluoranthene	0.11		0.041	0.0089	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Benzo[g,h,i]perylene	0.061		0.041	0.013	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Benzo[k]fluoranthene	0.050		0.041	0.012	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Chrysene	0.086		0.041	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Dibenz(a,h)anthracene	0.013	J	0.041	0.0080	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Fluoranthene	0.18		0.041	0.0077	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/09/22 13:23	05/10/22 20:37	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B06 Dup

Lab Sample ID: 500-215692-8

Date Collected: 04/26/22 12:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 79.0

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	0.057		0.041	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
Naphthalene	0.0065	J	0.041	0.0064	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
Phenanthrene	0.066		0.041	0.0058	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
Phenol	<0.21		0.21	0.092	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1
Pyrene	0.16		0.041	0.0082	mg/Kg	☆	05/09/22 13:23	05/10/22 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		31 - 143	05/09/22 13:23	05/10/22 20:37	1
2-Fluorobiphenyl	74		43 - 145	05/09/22 13:23	05/10/22 20:37	1
2-Fluorophenol	105		31 - 166	05/09/22 13:23	05/10/22 20:37	1
Nitrobenzene-d5 (Surr)	63		37 - 147	05/09/22 13:23	05/10/22 20:37	1
Phenol-d5	88		30 - 153	05/09/22 13:23	05/10/22 20:37	1
Terphenyl-d14 (Surr)	98		42 - 157	05/09/22 13:23	05/10/22 20:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Arsenic	8.4		0.59	0.20	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Barium	140		0.59	0.067	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Beryllium	0.84		0.23	0.055	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Boron	3.6		2.9	0.27	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Cadmium	0.20	B	0.12	0.021	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Calcium	2600		12	2.0	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Chromium	20	B	0.59	0.29	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Cobalt	12		0.29	0.077	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Copper	18		0.59	0.16	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Iron	20000	B	12	6.1	mg/Kg	☆	05/03/22 09:07	05/04/22 21:47	1
Lead	37		0.29	0.14	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Magnesium	3300		5.9	2.9	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Manganese	760	B	0.59	0.085	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Nickel	21		0.59	0.17	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Potassium	1200		29	10	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Selenium	0.41	J	0.59	0.34	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Silver	0.39		0.29	0.075	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Sodium	660		59	8.7	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Thallium	0.36	J	0.59	0.29	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Vanadium	34		0.29	0.069	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1
Zinc	69		1.2	0.51	mg/Kg	☆	05/03/22 09:07	05/03/22 20:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/22 16:27	05/06/22 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:27	05/06/22 19:29	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:29	1
Iron	0.27	J B	0.40	0.20	mg/L		05/04/22 16:27	05/06/22 19:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Client Sample ID: 2773V2-91-B06 Dup

Lab Sample ID: 500-215692-8

Date Collected: 04/26/22 12:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 79.0

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		05/04/22 16:27	05/06/22 19:29	1
Manganese	0.016	J	0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:29	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:27	05/06/22 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.068		0.050	0.010	mg/L		05/04/22 16:41	05/05/22 20:04	1
Barium	1.1		0.50	0.050	mg/L		05/04/22 16:41	05/05/22 20:04	1
Beryllium	0.0081		0.0040	0.0040	mg/L		05/04/22 16:41	05/05/22 20:04	1
Boron	0.079	J	0.10	0.050	mg/L		05/04/22 16:41	05/05/22 20:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:41	05/05/22 20:04	1
Calcium	24	F1	2.5	0.50	mg/L		05/04/22 16:41	05/05/22 20:04	1
Chromium	0.17		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:04	1
Cobalt	0.044		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:04	1
Iron	190		0.40	0.20	mg/L		05/04/22 16:41	05/05/22 20:04	1
Lead	0.11		0.0075	0.0075	mg/L		05/04/22 16:41	05/05/22 20:04	1
Manganese	2.4		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:04	1
Nickel	0.14		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:04	1
Potassium	15		2.5	0.50	mg/L		05/04/22 16:41	05/05/22 20:04	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:41	05/05/22 20:04	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:41	05/05/22 20:04	1
Zinc	0.55		0.50	0.020	mg/L		05/04/22 16:41	05/05/22 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		05/04/22 16:41	05/06/22 14:03	1
Thallium	<0.0020	F1	0.0020	0.0020	mg/L		05/04/22 16:41	05/06/22 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0066	mg/Kg	☆	05/05/22 15:55	05/06/22 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16	J*-	0.30	0.15	mg/Kg	☆	05/10/22 11:45	05/10/22 15:52	1
pH	7.1		0.2	0.2	SU			05/03/22 21:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

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.
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.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215692-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - AE7-059

Job ID: 500-215692-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	 500-215692 COC	Laboratory Lab Test America - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Dick Wright email richard.wright@testamericainc.com	Project Name <u>AET-059A</u> Project No <u>PTB/WO: 184-006/059A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>A. Buscaglia / S. Khodaei</u>	COC No <u>1</u> of <u>1</u> Lab Job No. <u>500-215692</u> Sample Temp <u>27-71.7</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	2773V2-91-B01-1	4/26	1050	S	X	X					X	X	X	X	X		
2	2773V2-91-B01-2		1100														
3	2773V2-91-B02		1110														
4	2773V2-91-B03		1120														
5	2773V2-91-B04		1130														
6	2773V2-91-B05		1140														
7	2773V2-91-B06		1150														
8	2773V2-91-B06 DVP	↓	1200	↓	↓	↓					↓	↓	↓	↓	↓		

Relinquished by <u>A. Ki</u>	Date/Time <u>4/26 1530</u>	Received by <u>[Signature]</u>	Date/Time <u>4/26 1530</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/27 9:05AM</u>	Received by <u>P. Neal</u>	Date/Time <u>4/27 0905</u>
Relinquished by <u>P. Neal</u>	Date/Time <u>4/27 1155</u>	Received by <u>[Signature]</u>	Date/Time <u>4/27 1155</u>



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 3887 (IL 31) Office Phone Number, if available: _____

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

US 20/State Street interchange

City: Elgin State: IL Zip Code: 60123

County: Kane Township: Elgin

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

Latitude: 42.02194 Longitude: - 88.28348

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 5,197

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 2773V2-92-B01 THROUGH 2773V2-92-B18 AND 2773V2-92-B20 THROUGH 2773V2-92-B24 WERE SAMPLED ADJACENT TO SITE 2773V2-92. SEE TABLE 3e AND FIGURES 3, 4, 7, 8 AND 9 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: 500-215693-1 AND 500-215647-1.

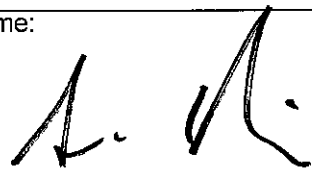
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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))

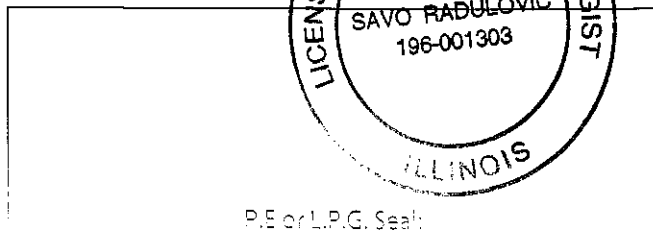
Company Name: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name: _____



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 28, 2022
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 2773V2-92

ROW

Sample ID	2773V2-92-B01-1	2773V2-92-B01-2	2773V2-92-B02-1	2773V2-92-B02-2	2773V2-92-B03-1	Maximum Allowable Concentration				
Sample Depth (ft)	0-6.5	6.5-13	0-6.5	6.5-13	0-6.5	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	4/26/2022	4/26/2022	4/25/2022	4/25/2022	4/25/2022					
PID	0	0	0	0	0					
Sample pH	8.4	8.7	8.8	8.8	8.2					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	2773V2-92-B03-2	2773V2-92-B04-1	2773V2-92-B04-2	2773V2-92-B05	2773V2-92-B06	Maximum Allowable Concentration				
Sample Depth (ft)	6.5-13	0-6.5	6.5-13	0-7	0-7	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	4/25/2022	4/25/2022	4/25/2022	4/25/2022	4/25/2022					
PID	0	0	0	0	0					
Sample pH	8.9	8	8.6	8.9	8.6					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	2773V2-92-B06 DUP	2773V2-92-B07	2773V2-92-B08	2773V2-92-B09	2773V2-92-B10	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	0-7	0-7	0-7	0-7	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	4/25/2022	4/26/2022	4/26/2022	4/25/2022	4/25/2022					
PID	0	0	0	0	0					
Sample pH	8.8	8.4	9	7.5	7.9					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	2773V2-92-B11	2773V2-92-B12	2773V2-92-B13	2773V2-92-B14	2773V2-92-B15	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	0-7	0-7	0-7	0-7	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	4/25/2022	4/25/2022	4/25/2022	4/25/2022	4/25/2022					
PID	0	0	0	0	0					
Sample pH	8.6	8.5	8.7	9	7.9					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	2773V2-92-B15 DUP	2773V2-92-B16-1	2773V2-92-B16-2	2773V2-92-B17	2773V2-92-B18	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	0-6.5	6.5-13	0-7	0-7	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	4/25/2022	4/25/2022	4/25/2022	4/25/2022	4/25/2022					
PID	0	0	0	0	0					
Sample pH	8.3	8.8	8.8	8.4	8.8					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	2773V2-92-B20	2773V2-92-B21	2773V2-92-B22	2773V2-92-B23	2773V2-92-B24	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	0-7	0-7	0-7	0-7	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	4/25/2022	4/25/2022	4/25/2022	4/25/2022	4/26/2022					
PID	0	0	0	0	0					
Sample pH	8	7.5	7.7	8.7	8.8					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215693-1
Client Project/Site: IDOT - AE7-059

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
5/12/2022 12:11:46 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@et.eurofinsus.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 - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B24

Lab Sample ID: 500-215693-1

Date Collected: 04/26/22 09:15

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 96.3

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	☆	04/27/22 17:58	05/03/22 20:13	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Acetone	<0.020		0.020	0.0087	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Chloromethane	<0.0050	*	0.0050	0.0020	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☆	04/27/22 17:58	05/03/22 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	04/27/22 17:58	05/03/22 20:13	1
4-Bromofluorobenzene (Surr)	91		75 - 131	04/27/22 17:58	05/03/22 20:13	1
Dibromofluoromethane	109		75 - 126	04/27/22 17:58	05/03/22 20:13	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/03/22 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	☆	05/10/22 08:04	05/11/22 12:50	1
1,2-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☆	05/10/22 08:04	05/11/22 12:50	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☆	05/10/22 08:04	05/11/22 12:50	1
1,4-Dichlorobenzene	<0.17		0.17	0.042	mg/Kg	☆	05/10/22 08:04	05/11/22 12:50	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☆	05/10/22 08:04	05/11/22 12:50	1

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Client Sample Results

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.33		0.33	0.075	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2,4-Dichlorophenol	<0.33		0.33	0.078	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2,4-Dinitrophenol	<0.67		0.67	0.58	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2-Chloronaphthalene	<0.17		0.17	0.036	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2-Chlorophenol	<0.17		0.17	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2-Nitroaniline	<0.17		0.17	0.044	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
2-Nitrophenol	<0.33		0.33	0.078	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
4-Nitrophenol	<0.67		0.67	0.31	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Acenaphthene	<0.033		0.033	0.0059	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Anthracene	<0.033		0.033	0.0055	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Benzo[a]anthracene	<0.033		0.033	0.0044	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Benzo[b]fluoranthene	<0.033		0.033	0.0071	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Benzo[k]fluoranthene	<0.033		0.033	0.0097	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.060	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Carbazole	<0.17		0.17	0.083	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Chrysene	<0.033		0.033	0.0090	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Di-n-butyl phthalate	<0.17		0.17	0.050	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Fluoranthene	<0.033		0.033	0.0061	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Fluorene	<0.033		0.033	0.0046	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1
Hexachloroethane	<0.17		0.17	0.050	mg/Kg	☼	05/10/22 08:04	05/11/22 12:50	1

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Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
Isophorone	<0.17		0.17	0.037	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
Nitrobenzene	<0.033		0.033	0.0082	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
Phenol	<0.17		0.17	0.073	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
Pyrene	<0.033		0.033	0.0066	mg/Kg	✳	05/10/22 08:04	05/11/22 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		31 - 143				05/10/22 08:04	05/11/22 12:50	1
2-Fluorobiphenyl	71		43 - 145				05/10/22 08:04	05/11/22 12:50	1
2-Fluorophenol	95		31 - 166				05/10/22 08:04	05/11/22 12:50	1
Nitrobenzene-d5 (Surr)	62		37 - 147				05/10/22 08:04	05/11/22 12:50	1
Phenol-d5	95		30 - 153				05/10/22 08:04	05/11/22 12:50	1
Terphenyl-d14 (Surr)	121		42 - 157				05/10/22 08:04	05/11/22 12:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J F1	1.0	0.19	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Arsenic	3.0		0.50	0.17	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Barium	13		2.5	0.28	mg/Kg	✳	05/04/22 09:00	05/06/22 22:09	5
Beryllium	0.20		0.20	0.047	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Boron	4.2		2.5	0.23	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Cadmium	0.064	J B	0.10	0.018	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Calcium	130000	B	50	8.4	mg/Kg	✳	05/04/22 09:00	05/06/22 22:09	5
Chromium	5.7	B F1	0.50	0.25	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Cobalt	2.5		0.25	0.065	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Copper	9.4	B	0.50	0.14	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Iron	7000	B	50	26	mg/Kg	✳	05/04/22 09:00	05/06/22 22:09	5
Lead	3.6		0.25	0.12	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Magnesium	65000	B	25	12	mg/Kg	✳	05/04/22 09:00	05/06/22 22:09	5
Manganese	280	B F2	0.50	0.072	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Nickel	6.5		0.50	0.14	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Potassium	400	F1	25	8.8	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Selenium	<0.50		0.50	0.29	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Silver	<0.25		0.25	0.064	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Sodium	200		50	7.4	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Thallium	<0.50		0.50	0.25	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Vanadium	7.3		0.25	0.059	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	1
Zinc	22		1.0	0.44	mg/Kg	✳	05/04/22 09:00	05/04/22 19:35	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		05/04/22 16:45	05/05/22 13:16	1
Barium	<0.50		0.50	0.050	mg/L		05/04/22 16:45	05/05/22 13:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 13:16	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 13:16	1

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Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 13:16	1
Calcium	6.8		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:16	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:16	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:16	1
Iron	<0.40		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 13:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 13:16	1
Manganese	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:16	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:16	1
Potassium	<2.5		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:16	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 13:16	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:16	1
Zinc	0.022	J	0.50	0.020	mg/L		05/04/22 16:45	05/05/22 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 14:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 11:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.016	0.0053	mg/Kg	⊛	05/04/22 14:15	05/05/22 08:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*-	0.25	0.12	mg/Kg	⊛	05/10/22 11:45	05/10/22 15:53	1
pH	8.8		0.2	0.2	SU			05/02/22 15:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B08

Lab Sample ID: 500-215693-2

Date Collected: 04/26/22 09:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Acetone	0.0096	J	0.021	0.0091	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Chloroethane	<0.0052		0.0052	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Chloromethane	<0.0052	*	0.0052	0.0021	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	✳	04/27/22 17:58	05/03/22 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/27/22 17:58	05/03/22 20:39	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/27/22 17:58	05/03/22 20:39	1
Dibromofluoromethane	110		75 - 126	04/27/22 17:58	05/03/22 20:39	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/03/22 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✳	05/10/22 08:04	05/11/22 13:13	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✳	05/10/22 08:04	05/11/22 13:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	✳	05/10/22 08:04	05/11/22 13:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	✳	05/10/22 08:04	05/11/22 13:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 13:13	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B08

Lab Sample ID: 500-215693-2

Date Collected: 04/26/22 09:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0067	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 13:13	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B08

Lab Sample ID: 500-215693-2

Date Collected: 04/26/22 09:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.0

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	<0.035		0.035	0.0090	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.043	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
Phenol	<0.18		0.18	0.078	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	☆	05/10/22 08:04	05/11/22 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		31 - 143	05/10/22 08:04	05/11/22 13:13	1
2-Fluorobiphenyl	81		43 - 145	05/10/22 08:04	05/11/22 13:13	1
2-Fluorophenol	101		31 - 166	05/10/22 08:04	05/11/22 13:13	1
Nitrobenzene-d5 (Surr)	71		37 - 147	05/10/22 08:04	05/11/22 13:13	1
Phenol-d5	100		30 - 153	05/10/22 08:04	05/11/22 13:13	1
Terphenyl-d14 (Surr)	122		42 - 157	05/10/22 08:04	05/11/22 13:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	0.97	0.19	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Arsenic	3.8		0.49	0.17	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Barium	17		2.4	0.28	mg/Kg	☆	05/04/22 09:00	05/06/22 22:39	5
Beryllium	0.23		0.19	0.046	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Boron	4.7		2.4	0.23	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Cadmium	0.038	J B	0.097	0.018	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Calcium	130000	B	49	8.3	mg/Kg	☆	05/04/22 09:00	05/06/22 22:39	5
Chromium	7.4	B	0.49	0.24	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Cobalt	4.3		0.49	0.13	mg/Kg	☆	05/04/22 09:00	05/06/22 22:36	2
Copper	13	B	0.49	0.14	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Iron	11000	B	49	25	mg/Kg	☆	05/04/22 09:00	05/06/22 22:39	5
Lead	4.5		0.24	0.11	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Magnesium	68000	B	24	12	mg/Kg	☆	05/04/22 09:00	05/06/22 22:39	5
Manganese	310	B	0.49	0.071	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Nickel	9.0		0.49	0.14	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Potassium	520		24	8.6	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Selenium	<0.49		0.49	0.29	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Silver	0.084	J	0.24	0.063	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Sodium	670		49	7.2	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Thallium	<0.49		0.49	0.24	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Vanadium	12		0.24	0.058	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	1
Zinc	29		0.97	0.43	mg/Kg	☆	05/04/22 09:00	05/04/22 19:58	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		05/04/22 16:45	05/05/22 13:29	1
Barium	<0.50		0.50	0.050	mg/L		05/04/22 16:45	05/05/22 13:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 13:29	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 13:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B08

Lab Sample ID: 500-215693-2

Date Collected: 04/26/22 09:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 13:29	1
Calcium	5.9		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:29	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:29	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:29	1
Iron	<0.40		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 13:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 13:29	1
Manganese	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:29	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:29	1
Potassium	<2.5		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:29	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 13:29	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:29	1
Zinc	<0.50		0.50	0.020	mg/L		05/04/22 16:45	05/05/22 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 14:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0057	mg/Kg	⊛	05/04/22 14:15	05/05/22 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*-	0.25	0.13	mg/Kg	⊛	05/10/22 11:45	05/10/22 15:55	1
pH	9.0		0.2	0.2	SU			05/02/22 15:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B07

Lab Sample ID: 500-215693-3

Date Collected: 04/26/22 09:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Acetone	<0.019		0.019	0.0083	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Chloromethane	<0.0048	*	0.0048	0.0019	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/27/22 17:58	05/03/22 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	04/27/22 17:58	05/03/22 21:05	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/27/22 17:58	05/03/22 21:05	1
Dibromofluoromethane	110		75 - 126	04/27/22 17:58	05/03/22 21:05	1
Toluene-d8 (Surr)	93		75 - 124	04/27/22 17:58	05/03/22 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B07

Lab Sample ID: 500-215693-3

Date Collected: 04/26/22 09:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Acenaphthene	0.019	J	0.037	0.0067	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Anthracene	0.033	J	0.037	0.0062	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Benzo[a]anthracene	0.065		0.037	0.0050	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Benzo[a]pyrene	0.076		0.037	0.0072	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Benzo[b]fluoranthene	0.10		0.037	0.0081	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Benzo[g,h,i]perylene	0.025	J	0.037	0.012	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Benzo[k]fluoranthene	0.032	J	0.037	0.011	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Chrysene	0.066		0.037	0.010	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Dibenz(a,h)anthracene	0.0080	J	0.037	0.0072	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Fluoranthene	0.20		0.037	0.0069	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Fluorene	0.014	J	0.037	0.0053	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	05/10/22 08:04	05/11/22 13:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B07

Lab Sample ID: 500-215693-3

Date Collected: 04/26/22 09:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 85.9

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	0.028	J	0.037	0.0097	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
Naphthalene	0.0063	J	0.037	0.0058	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
Phenanthrene	0.12		0.037	0.0052	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
Pyrene	0.14		0.037	0.0074	mg/Kg	☼	05/10/22 08:04	05/11/22 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		31 - 143				05/10/22 08:04	05/11/22 13:36	1
2-Fluorobiphenyl	76		43 - 145				05/10/22 08:04	05/11/22 13:36	1
2-Fluorophenol	92		31 - 166				05/10/22 08:04	05/11/22 13:36	1
Nitrobenzene-d5 (Surr)	69		37 - 147				05/10/22 08:04	05/11/22 13:36	1
Phenol-d5	94		30 - 153				05/10/22 08:04	05/11/22 13:36	1
Terphenyl-d14 (Surr)	121		42 - 157				05/10/22 08:04	05/11/22 13:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.1	0.22	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Arsenic	4.6		0.57	0.20	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Barium	33		1.1	0.13	mg/Kg	☼	05/04/22 09:00	05/06/22 22:43	2
Beryllium	0.37		0.23	0.053	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Boron	4.8		2.9	0.27	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Cadmium	0.036	J B	0.11	0.021	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Calcium	130000	B	57	9.7	mg/Kg	☼	05/04/22 09:00	05/06/22 22:46	5
Chromium	7.1	B	0.57	0.28	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Cobalt	4.3		0.29	0.075	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Copper	12	B	0.57	0.16	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Iron	12000	B	23	12	mg/Kg	☼	05/04/22 09:00	05/06/22 22:43	2
Lead	6.8		0.29	0.13	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Magnesium	53000	B	11	5.7	mg/Kg	☼	05/04/22 09:00	05/06/22 22:43	2
Manganese	370	B	0.57	0.083	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Nickel	12		0.57	0.17	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Potassium	600		29	10	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Silver	0.13	J	0.29	0.074	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Sodium	350		57	8.5	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Vanadium	12		0.29	0.067	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	1
Zinc	31		1.1	0.50	mg/Kg	☼	05/04/22 09:00	05/04/22 20:01	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		05/04/22 16:34	05/06/22 19:49	1
Iron	<0.40	F1	0.40	0.20	mg/L		05/04/22 16:34	05/06/22 19:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:34	05/06/22 19:49	1
Manganese	0.91		0.025	0.010	mg/L		05/04/22 16:34	05/06/22 19:49	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B07

Lab Sample ID: 500-215693-3

Date Collected: 04/26/22 09:40

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.028	J	0.050	0.010	mg/L		05/04/22 16:45	05/05/22 13:33	1
Barium	0.41	J	0.50	0.050	mg/L		05/04/22 16:45	05/05/22 13:33	1
Beryllium	0.0045		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 13:33	1
Boron	0.055	J	0.10	0.050	mg/L		05/04/22 16:45	05/05/22 13:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 13:33	1
Calcium	21		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:33	1
Chromium	0.092		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:33	1
Cobalt	0.022	J	0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:33	1
Iron	94		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 13:33	1
Lead	0.040		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 13:33	1
Manganese	1.4		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:33	1
Nickel	0.10		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:33	1
Potassium	9.0		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:33	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 13:33	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:33	1
Zinc	0.31	J	0.50	0.020	mg/L		05/04/22 16:45	05/05/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 14:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 11:22	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	⚠	05/04/22 14:15	05/05/22 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28	*- F1	0.28	0.14	mg/Kg	⚠	05/10/22 11:45	05/10/22 15:57	1
pH	8.4		0.2	0.2	SU			05/03/22 20:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B01-1

Lab Sample ID: 500-215693-4

Date Collected: 04/26/22 10:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 88.7

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	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Acetone	<0.017		0.017	0.0075	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Chloromethane	<0.0043	*	0.0043	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/27/22 17:58	05/03/22 21:30	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/27/22 17:58	05/03/22 21:30	1
Dibromofluoromethane	112		75 - 126	04/27/22 17:58	05/03/22 21:30	1
Toluene-d8 (Surr)	93		75 - 124	04/27/22 17:58	05/03/22 21:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B01-1

Lab Sample ID: 500-215693-4

Date Collected: 04/26/22 10:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☆	05/10/22 08:04	05/11/22 13:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B01-1

Lab Sample ID: 500-215693-4

Date Collected: 04/26/22 10:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
Phenol	<0.19		0.19	0.082	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	✳	05/10/22 08:04	05/11/22 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		31 - 143				05/10/22 08:04	05/11/22 13:58	1
2-Fluorobiphenyl	79		43 - 145				05/10/22 08:04	05/11/22 13:58	1
2-Fluorophenol	97		31 - 166				05/10/22 08:04	05/11/22 13:58	1
Nitrobenzene-d5 (Surr)	72		37 - 147				05/10/22 08:04	05/11/22 13:58	1
Phenol-d5	97		30 - 153				05/10/22 08:04	05/11/22 13:58	1
Terphenyl-d14 (Surr)	126		42 - 157				05/10/22 08:04	05/11/22 13:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.0	0.20	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Arsenic	5.1		0.52	0.18	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Barium	22		2.6	0.29	mg/Kg	✳	05/04/22 09:00	05/06/22 22:52	5
Beryllium	0.25		0.21	0.048	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Boron	4.6		2.6	0.24	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Cadmium	0.049	J B	0.10	0.019	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Calcium	150000	B	100	17	mg/Kg	✳	05/04/22 09:00	05/09/22 11:19	10
Chromium	5.5	B	0.52	0.26	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Cobalt	3.4		0.26	0.068	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Copper	11	B	0.52	0.14	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Iron	13000	B	52	27	mg/Kg	✳	05/04/22 09:00	05/06/22 22:52	5
Lead	5.4		0.26	0.12	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Magnesium	94000	B	26	13	mg/Kg	✳	05/04/22 09:00	05/06/22 22:52	5
Manganese	320	B	0.52	0.075	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Nickel	8.9		0.52	0.15	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Potassium	450		26	9.1	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Selenium	<0.52		0.52	0.30	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Silver	<0.26		0.26	0.066	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Sodium	170		52	7.6	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Thallium	<0.52		0.52	0.26	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Vanadium	10		0.26	0.061	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1
Zinc	31		1.0	0.45	mg/Kg	✳	05/04/22 09:00	05/04/22 20:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/04/22 16:34	05/09/22 16:58	1
Manganese	0.93		0.025	0.010	mg/L		05/04/22 16:34	05/06/22 20:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B01-1

Lab Sample ID: 500-215693-4

Date Collected: 04/26/22 10:20

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 88.7

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		05/04/22 16:45	05/05/22 13:36	1
Barium	0.056	J	0.50	0.050	mg/L		05/04/22 16:45	05/05/22 13:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 13:36	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 13:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 13:36	1
Calcium	11		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:36	1
Chromium	0.014	J	0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:36	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:36	1
Iron	12		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 13:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 13:36	1
Manganese	0.16		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:36	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:36	1
Potassium	2.7		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:36	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 13:36	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:36	1
Zinc	0.077	J	0.50	0.020	mg/L		05/04/22 16:45	05/05/22 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 14:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 11:24	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	⊛	05/04/22 14:15	05/05/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26	*-	0.26	0.13	mg/Kg	⊛	05/10/22 11:45	05/10/22 16:01	1
pH	8.4		0.2	0.2	SU			05/02/22 15:30	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B01-2

Lab Sample ID: 500-215693-5

Date Collected: 04/26/22 10:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Acetone	<0.020		0.020	0.0086	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Chloromethane	<0.0050	*	0.0050	0.0020	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Toluene	0.00050	J	0.0020	0.00050	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	✳	04/27/22 17:58	05/03/22 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/27/22 17:58	05/03/22 21:56	1
4-Bromofluorobenzene (Surr)	97		75 - 131	04/27/22 17:58	05/03/22 21:56	1
Dibromofluoromethane	111		75 - 126	04/27/22 17:58	05/03/22 21:56	1
Toluene-d8 (Surr)	94		75 - 124	04/27/22 17:58	05/03/22 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B01-2

Lab Sample ID: 500-215693-5

Date Collected: 04/26/22 10:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.34		0.34	0.077	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2,4-Dichlorophenol	<0.34		0.34	0.080	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2,4-Dinitrophenol	<0.68		0.68	0.60	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2-Methylnaphthalene	<0.068		0.068	0.0062	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
2-Nitrophenol	<0.34		0.34	0.080	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Benzo[b]fluoranthene	<0.034		0.034	0.0073	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Chrysene	<0.034		0.034	0.0092	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0065	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Hexachlorobenzene	<0.068		0.068	0.0079	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	05/10/22 08:04	05/11/22 14:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B01-2

Lab Sample ID: 500-215693-5

Date Collected: 04/26/22 10:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 94.4

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	<0.034		0.034	0.0088	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
Isophorone	<0.17		0.17	0.038	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
Naphthalene	<0.034		0.034	0.0052	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
N-Nitrosodi-n-propylamine	<0.068		0.068	0.041	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
Phenanthrene	<0.034		0.034	0.0047	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
Phenol	<0.17		0.17	0.075	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
Pyrene	<0.034		0.034	0.0067	mg/Kg	✳	05/10/22 08:04	05/11/22 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		31 - 143				05/10/22 08:04	05/11/22 14:21	1
2-Fluorobiphenyl	74		43 - 145				05/10/22 08:04	05/11/22 14:21	1
2-Fluorophenol	94		31 - 166				05/10/22 08:04	05/11/22 14:21	1
Nitrobenzene-d5 (Surr)	63		37 - 147				05/10/22 08:04	05/11/22 14:21	1
Phenol-d5	94		30 - 153				05/10/22 08:04	05/11/22 14:21	1
Terphenyl-d14 (Surr)	121		42 - 157				05/10/22 08:04	05/11/22 14:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.19	J	0.99	0.19	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Arsenic	2.8		0.50	0.17	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Barium	17		2.5	0.28	mg/Kg	✳	05/04/22 09:00	05/06/22 23:09	5
Beryllium	0.23		0.20	0.046	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Boron	5.9		2.5	0.23	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Cadmium	0.062	J B	0.099	0.018	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Calcium	150000	B	99	17	mg/Kg	✳	05/04/22 09:00	05/09/22 11:22	10
Chromium	6.0	B	0.50	0.25	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Cobalt	3.0		0.25	0.065	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Copper	8.6	B	0.50	0.14	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Iron	9200	B	50	26	mg/Kg	✳	05/04/22 09:00	05/06/22 23:09	5
Lead	3.6		0.25	0.11	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Magnesium	85000	B	25	12	mg/Kg	✳	05/04/22 09:00	05/06/22 23:09	5
Manganese	340	B	0.50	0.072	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Nickel	6.9		0.50	0.14	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Potassium	570		25	8.8	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Selenium	<0.50		0.50	0.29	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Silver	<0.25		0.25	0.064	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Sodium	200		50	7.4	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Thallium	<0.50		0.50	0.25	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Vanadium	7.6		0.25	0.059	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	1
Zinc	22		0.99	0.44	mg/Kg	✳	05/04/22 09:00	05/04/22 20:08	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		05/04/22 16:45	05/05/22 13:45	1
Barium	<0.50		0.50	0.050	mg/L		05/04/22 16:45	05/05/22 13:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 13:45	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 13:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Client Sample ID: 2773V2-92-B01-2

Lab Sample ID: 500-215693-5

Date Collected: 04/26/22 10:30

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 13:45	1
Calcium	7.0		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:45	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:45	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:45	1
Iron	<0.40		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 13:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 13:45	1
Manganese	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:45	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:45	1
Potassium	<2.5		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:45	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 13:45	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:45	1
Zinc	<0.50		0.50	0.020	mg/L		05/04/22 16:45	05/05/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 14:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 14:58	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		05/05/22 11:20	05/06/22 11:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0055	mg/Kg	⊛	05/04/22 14:15	05/05/22 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*-	0.25	0.13	mg/Kg	⊛	05/10/22 11:45	05/10/22 16:04	1
pH	8.7		0.2	0.2	SU			05/02/22 15:31	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215693-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - AE7-059

Job ID: 500-215693-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com					Laboratory Lab Test America - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Dick Wright email richard.wright@testamericainc.com					Project Name <u>AE7-059A</u>					COC No <u>1</u> of <u>1</u>		
										Project No <u>PTB/WO: 184-006/059A</u>					Lab Job No <u>500-215693</u>		
TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other					Sampler: <u>A. Buscaglia / S. Khodaei</u>					Sample Temp <u>23 → 13 27 → 17</u>							
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide					ANALYSES										Matrix Key: W Water S Soil SL Sludge S Sediment L Leachate DW Drinking Water OL Oil O Other		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2773V2-92-B24	4/26	0915	S	X	X					X	X	X	X	X		
2	2773V2-92-B08	4/26	0930	S	X	X					X	X	X	X	X		
3	2773V2-92-B07	4/26	0940	S	X	X					X	X	X	X	X		
4	2773V2-92-B01-1	4/26	1020	S	X	X					X	X	X	X	X		
5	2773V2-92-B01-2	4/26	1030	S	X	X					X	X	X	X	X		
6	2773V2-92-B25	4/26	1040	S	X	X					X	X	X	X	X		
7	Trip Blank #2				X												
Relinquished by <u>Alex Kim</u>					Date/Time <u>4/26 1530</u>					Received by <u>[Signature]</u>					Date/Time <u>4/26 1530</u>		
Relinquished by <u>[Signature]</u>					Date/Time <u>4/27 9:05AM</u>					Received by <u>[Signature]</u>					Date/Time <u>4/27 0905</u>		
Relinquished by <u>[Signature]</u>					Date/Time <u>4/27/22 1157</u>					Received by <u>[Signature]</u>					Date/Time <u>4/27/22 1155</u>		

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215647-1
Client Project/Site: IDOT - AE7-059

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
5/19/2022 11:48:19 AM

Richard Wright, Senior Project Manager
(708)746-0045

Richard.Wright@et.eurofinsus.com

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B15

Lab Sample ID: 500-215647-1

Date Collected: 04/25/22 09:30

Matrix: Solid

Date Received: 04/26/22 14:02

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	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Acetone	<0.019		0.019	0.0083	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	04/26/22 17:25	04/27/22 14:24	1
4-Bromofluorobenzene (Surr)	98		75 - 131	04/26/22 17:25	04/27/22 14:24	1
Dibromofluoromethane	108		75 - 126	04/26/22 17:25	04/27/22 14:24	1
Toluene-d8 (Surr)	94		75 - 124	04/26/22 17:25	04/27/22 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 17:58	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	05/06/22 12:09	05/18/22 17:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	05/06/22 12:09	05/18/22 17:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✳	05/06/22 12:09	05/18/22 17:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✳	05/06/22 12:09	05/18/22 17:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B15

Lab Sample ID: 500-215647-1

Date Collected: 04/25/22 09:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2,4,6-Trichlorophenol	<0.39	*-	0.39	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2,4-Dimethylphenol	<0.39	*-	0.39	0.15	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2-Chlorophenol	<0.20	*-	0.20	0.067	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2-Methylphenol	<0.20	*-	0.20	0.063	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
3 & 4 Methylphenol	<0.20	*-	0.20	0.065	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
3,3'-Dichlorobenzidine	<0.20	*-	0.20	0.055	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
3-Nitroaniline	<0.39	*-	0.39	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
4-Chloro-3-methylphenol	<0.39	*-	0.39	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
4-Chloroaniline	<0.79	*-	0.79	0.18	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
4-Nitroaniline	<0.39	*-	0.39	0.16	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
4-Nitrophenol	<0.79	*-	0.79	0.37	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Benzo[a]pyrene	0.021	J	0.039	0.0076	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Dibenz(a,h)anthracene	0.036	J	0.039	0.0076	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B15

Lab Sample ID: 500-215647-1

Date Collected: 04/25/22 09:30

Matrix: Solid

Date Received: 04/26/22 14:02

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	0.036	J	0.039	0.010	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Phenol	<0.20	*-	0.20	0.087	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Pyrene	0.014	J	0.039	0.0078	mg/Kg	☼	05/06/22 12:09	05/18/22 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	41		31 - 143				05/06/22 12:09	05/18/22 17:58	1
2-Fluorobiphenyl	65		43 - 145				05/06/22 12:09	05/18/22 17:58	1
2-Fluorophenol	61		31 - 166				05/06/22 12:09	05/18/22 17:58	1
Nitrobenzene-d5 (Surr)	61		37 - 147				05/06/22 12:09	05/18/22 17:58	1
Phenol-d5	53		30 - 153				05/06/22 12:09	05/18/22 17:58	1
Terphenyl-d14 (Surr)	78		42 - 157				05/06/22 12:09	05/18/22 17:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.2	0.24	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Arsenic	8.4		0.61	0.21	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Barium	92		0.61	0.069	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Beryllium	0.93		0.24	0.057	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Boron	2.0	J	3.0	0.28	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Calcium	3600		12	2.1	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Chromium	20	B	0.61	0.30	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Cobalt	9.4		0.30	0.080	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Copper	16	B	0.61	0.17	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Iron	22000	B	12	6.3	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Lead	13		0.30	0.14	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Magnesium	3500		6.1	3.0	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Manganese	520		0.61	0.088	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Nickel	27		0.61	0.18	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Potassium	860		30	11	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Selenium	0.40	J	0.61	0.36	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Silver	0.36		0.30	0.079	mg/Kg	☼	05/02/22 16:21	05/03/22 21:08	1
Sodium	1300		61	9.0	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Vanadium	34		0.30	0.072	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	1
Zinc	56		1.2	0.53	mg/Kg	☼	05/02/22 16:21	05/03/22 13:28	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		05/03/22 15:28	05/04/22 17:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:28	05/04/22 17:14	1
Chromium	0.055	F1	0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:14	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:28	05/04/22 17:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B15

Lab Sample ID: 500-215647-1

Date Collected: 04/25/22 09:30

Matrix: Solid

Date Received: 04/26/22 14:02

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		05/03/22 15:28	05/04/22 17:14	1
Manganese	0.26		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:14	1
Nickel	0.023	J	0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.073		0.050	0.010	mg/L		05/03/22 15:31	05/04/22 13:30	1
Barium	1.0		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 13:30	1
Beryllium	0.0098		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 13:30	1
Boron	0.090	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 13:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 13:30	1
Calcium	34		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:30	1
Chromium	0.21		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:30	1
Cobalt	0.048		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:30	1
Iron	220		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 13:30	1
Lead	0.094		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 13:30	1
Manganese	2.1		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:30	1
Nickel	0.22		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:30	1
Potassium	16		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:30	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 13:30	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:30	1
Zinc	0.60		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 19:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 17:15	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		05/04/22 10:05	05/05/22 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.0064	mg/Kg	☆	05/04/22 14:15	05/05/22 07:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.18	J*-	0.29	0.15	mg/Kg	☆	05/03/22 11:46	05/03/22 16:25	1
pH	7.9		0.2	0.2	SU			04/28/22 18:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B15 Dup

Lab Sample ID: 500-215647-2

Date Collected: 04/25/22 09:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Acetone	<0.018		0.018	0.0078	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	✳	04/26/22 17:25	04/27/22 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/26/22 17:25	04/27/22 14:50	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/26/22 17:25	04/27/22 14:50	1
Dibromofluoromethane	111		75 - 126	04/26/22 17:25	04/27/22 14:50	1
Toluene-d8 (Surr)	95		75 - 124	04/26/22 17:25	04/27/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 18:18	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✳	05/06/22 12:09	05/18/22 18:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✳	05/06/22 12:09	05/18/22 18:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	✳	05/06/22 12:09	05/18/22 18:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✳	05/06/22 12:09	05/18/22 18:18	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B15 Dup

Lab Sample ID: 500-215647-2

Date Collected: 04/25/22 09:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2,4,6-Trichlorophenol	<0.38	*-	0.38	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2,4-Dimethylphenol	<0.38	*-	0.38	0.15	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2-Chlorophenol	<0.19	*-	0.19	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2-Methylphenol	<0.19	*-	0.19	0.062	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
3 & 4 Methylphenol	<0.19	*-	0.19	0.065	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
3,3'-Dichlorobenzidine	<0.19	*-	0.19	0.054	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
3-Nitroaniline	<0.38	*-	0.38	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
4-Chloro-3-methylphenol	<0.38	*-	0.38	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
4-Chloroaniline	<0.78	*-	0.78	0.18	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
4-Nitroaniline	<0.38	*-	0.38	0.16	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
4-Nitrophenol	<0.78	*-	0.78	0.37	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Benzo[a]anthracene	0.017	J	0.038	0.0052	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Benzo[a]pyrene	0.029	J	0.038	0.0075	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Benzo[b]fluoranthene	0.044		0.038	0.0084	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Benzo[g,h,i]perylene	0.024	J	0.038	0.012	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Benzo[k]fluoranthene	0.018	J	0.038	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Chrysene	0.024	J	0.038	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Fluoranthene	0.058		0.038	0.0072	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B15 Dup

Lab Sample ID: 500-215647-2

Date Collected: 04/25/22 09:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.025	J	0.038	0.010	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Phenanthrene	0.024	J	0.038	0.0054	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Phenol	<0.19	*	0.19	0.086	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Pyrene	0.057		0.038	0.0077	mg/Kg	☼	05/06/22 12:09	05/18/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		31 - 143				05/06/22 12:09	05/18/22 18:18	1
2-Fluorobiphenyl	78		43 - 145				05/06/22 12:09	05/18/22 18:18	1
2-Fluorophenol	75		31 - 166				05/06/22 12:09	05/18/22 18:18	1
Nitrobenzene-d5 (Surr)	72		37 - 147				05/06/22 12:09	05/18/22 18:18	1
Phenol-d5	35		30 - 153				05/06/22 12:09	05/18/22 18:18	1
Terphenyl-d14 (Surr)	78		42 - 157				05/06/22 12:09	05/18/22 18:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Arsenic	5.7		0.57	0.20	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Barium	56		0.57	0.065	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Beryllium	0.52		0.23	0.054	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Boron	2.9		2.9	0.27	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Cadmium	0.065	J	0.11	0.021	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Calcium	27000		11	1.9	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Chromium	10	B	0.57	0.28	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Cobalt	6.3		0.29	0.075	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Copper	11	B	0.57	0.16	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Iron	12000	B	11	6.0	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Lead	11		0.29	0.13	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Magnesium	15000		5.7	2.8	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Manganese	370		0.57	0.083	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Nickel	17		0.57	0.17	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Potassium	630		29	10	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Silver	0.25	J	0.29	0.074	mg/Kg	☼	05/02/22 16:21	05/03/22 21:11	1
Sodium	630		57	8.5	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Vanadium	20		0.29	0.068	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	1
Zinc	46		1.1	0.50	mg/Kg	☼	05/02/22 16:21	05/03/22 13:31	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		05/03/22 15:28	05/04/22 17:34	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:34	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:28	05/04/22 17:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 17:34	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B15 Dup

Lab Sample ID: 500-215647-2

Date Collected: 04/25/22 09:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.49		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:34	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.043	J	0.050	0.010	mg/L		05/03/22 15:31	05/04/22 13:33	1
Barium	0.69		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 13:33	1
Beryllium	0.0062		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 13:33	1
Boron	0.093	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 13:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 13:33	1
Calcium	32		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:33	1
Chromium	0.13		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:33	1
Cobalt	0.034		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:33	1
Iron	140		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 13:33	1
Lead	0.069		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 13:33	1
Manganese	1.6		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:33	1
Nickel	0.14		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:33	1
Potassium	16		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:33	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 13:33	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:33	1
Zinc	0.49	J	0.50	0.020	mg/L		05/03/22 15:31	05/04/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 19:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 10:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0063	mg/Kg	☆	05/04/22 14:15	05/05/22 07:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29	*- ^+	0.29	0.14	mg/Kg	☆	05/03/22 11:46	05/03/22 15:45	1
pH	8.3		0.2	0.2	SU			04/29/22 13:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B14

Lab Sample ID: 500-215647-3

Date Collected: 04/25/22 10:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Acetone	<0.018		0.018	0.0079	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✱	04/26/22 17:25	04/27/22 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	04/26/22 17:25	04/27/22 15:16	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/26/22 17:25	04/27/22 15:16	1
Dibromofluoromethane	109		75 - 126	04/26/22 17:25	04/27/22 15:16	1
Toluene-d8 (Surr)	93		75 - 124	04/26/22 17:25	04/27/22 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✱	05/06/22 12:09	05/18/22 18:39	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✱	05/06/22 12:09	05/18/22 18:39	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	✱	05/06/22 12:09	05/18/22 18:39	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✱	05/06/22 12:09	05/18/22 18:39	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✱	05/06/22 12:09	05/18/22 18:39	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B14

Lab Sample ID: 500-215647-3

Date Collected: 04/25/22 10:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2,4,6-Trichlorophenol	<0.35	*-	0.35	0.12	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2,4-Dimethylphenol	<0.35	*-	0.35	0.14	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2-Chlorophenol	<0.18	*-	0.18	0.061	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2-Methylnaphthalene	<0.072		0.072	0.0066	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2-Methylphenol	<0.18	*-	0.18	0.057	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
3 & 4 Methylphenol	<0.18	*-	0.18	0.059	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
3,3'-Dichlorobenzidine	<0.18	*-	0.18	0.050	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
3-Nitroaniline	<0.35	*-	0.35	0.11	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
4-Chloro-3-methylphenol	<0.35	*-	0.35	0.12	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
4-Chloroaniline	<0.72	*-	0.72	0.17	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
4-Nitroaniline	<0.35	*-	0.35	0.15	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
4-Nitrophenol	<0.72	*-	0.72	0.34	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Fluoranthene	0.0072	J	0.035	0.0066	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☆	05/06/22 12:09	05/18/22 18:39	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B14

Lab Sample ID: 500-215647-3

Date Collected: 04/25/22 10:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 89.5

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	<0.035		0.035	0.0092	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
Isophorone	<0.18		0.18	0.040	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
Phenol	<0.18	*	0.18	0.079	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1
Pyrene	0.0091	J	0.035	0.0071	mg/Kg	✳	05/06/22 12:09	05/18/22 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	49		31 - 143	05/06/22 12:09	05/18/22 18:39	1
2-Fluorobiphenyl	80		43 - 145	05/06/22 12:09	05/18/22 18:39	1
2-Fluorophenol	69		31 - 166	05/06/22 12:09	05/18/22 18:39	1
Nitrobenzene-d5 (Surr)	76		37 - 147	05/06/22 12:09	05/18/22 18:39	1
Phenol-d5	57		30 - 153	05/06/22 12:09	05/18/22 18:39	1
Terphenyl-d14 (Surr)	77		42 - 157	05/06/22 12:09	05/18/22 18:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.1	0.22	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Arsenic	9.9		0.55	0.19	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Barium	46		1.1	0.13	mg/Kg	✳	05/02/22 16:21	05/03/22 21:14	2
Beryllium	0.45		0.22	0.052	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Boron	3.6		2.8	0.26	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Cadmium	0.062	J	0.11	0.020	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Calcium	100000		55	9.4	mg/Kg	✳	05/02/22 16:21	05/03/22 21:18	5
Chromium	8.4	B	0.55	0.27	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Cobalt	5.7		0.28	0.073	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Copper	16	B	0.55	0.16	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Iron	18000	B	22	12	mg/Kg	✳	05/02/22 16:21	05/03/22 21:14	2
Lead	13		0.28	0.13	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Magnesium	44000		11	5.5	mg/Kg	✳	05/02/22 16:21	05/03/22 21:14	2
Manganese	380		0.55	0.080	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Nickel	14		0.55	0.16	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Potassium	500		28	9.8	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Selenium	<0.55		0.55	0.33	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Silver	0.10	J	0.28	0.072	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Sodium	510		110	16	mg/Kg	✳	05/02/22 16:21	05/03/22 21:14	2
Thallium	<0.55		0.55	0.28	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Vanadium	25		0.28	0.065	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	1
Zinc	48		1.1	0.49	mg/Kg	✳	05/02/22 16:21	05/03/22 13:45	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		05/03/22 15:28	05/04/22 17:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 17:38	1
Manganese	0.71		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B14

Lab Sample ID: 500-215647-3

Date Collected: 04/25/22 10:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.022	J	0.050	0.010	mg/L		05/03/22 15:31	05/04/22 13:36	1
Barium	0.31	J	0.50	0.050	mg/L		05/03/22 15:31	05/04/22 13:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 13:36	1
Boron	0.088	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 13:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 13:36	1
Calcium	17		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:36	1
Chromium	0.060		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:36	1
Cobalt	0.012	J	0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:36	1
Iron	68		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 13:36	1
Lead	0.034		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 13:36	1
Manganese	0.80		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:36	1
Nickel	0.051		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:36	1
Potassium	8.1		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:36	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 13:36	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:36	1
Zinc	0.24	J	0.50	0.020	mg/L		05/03/22 15:31	05/04/22 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 19:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0059	mg/Kg	✱	05/04/22 14:15	05/05/22 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*- ^+	0.25	0.13	mg/Kg	✱	05/03/22 11:46	05/03/22 15:46	1
pH	9.0		0.2	0.2	SU			04/29/22 13:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B13

Lab Sample ID: 500-215647-4

Date Collected: 04/25/22 10:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Acetone	<0.018		0.018	0.0080	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Toluene	0.00065	J	0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✳	04/26/22 17:25	04/27/22 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/26/22 17:25	04/27/22 15:42	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/26/22 17:25	04/27/22 15:42	1
Dibromofluoromethane	107		75 - 126	04/26/22 17:25	04/27/22 15:42	1
Toluene-d8 (Surr)	95		75 - 124	04/26/22 17:25	04/27/22 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	✳	05/06/22 12:09	05/18/22 18:59	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	✳	05/06/22 12:09	05/18/22 18:59	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	✳	05/06/22 12:09	05/18/22 18:59	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	✳	05/06/22 12:09	05/18/22 18:59	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	✳	05/06/22 12:09	05/18/22 18:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B13

Lab Sample ID: 500-215647-4

Date Collected: 04/25/22 10:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.34	F1	0.34	0.078	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2,4,6-Trichlorophenol	<0.34	F1 *-	0.34	0.12	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2,4-Dichlorophenol	<0.34	F1	0.34	0.082	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2,4-Dimethylphenol	<0.34	F1 *-	0.34	0.13	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2,4-Dinitrophenol	<0.69	F1	0.69	0.60	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2-Chlorophenol	<0.17	F1 *- F2	0.17	0.059	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2-Methylnaphthalene	<0.069		0.069	0.0063	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2-Methylphenol	<0.17	F1 *-	0.17	0.055	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2-Nitroaniline	<0.17	F1 F2	0.17	0.046	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
3 & 4 Methylphenol	<0.17	F1 *-	0.17	0.057	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
3,3'-Dichlorobenzidine	<0.17	F1 *-	0.17	0.048	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
3-Nitroaniline	<0.34	F1 *-	0.34	0.11	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.28	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
4-Chloro-3-methylphenol	<0.34	F1 *-	0.34	0.12	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
4-Chloroaniline	<0.69	*-	0.69	0.16	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
4-Nitroaniline	<0.34	F1 *-	0.34	0.14	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
4-Nitrophenol	<0.69	F1 *-	0.69	0.33	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Bis(2-ethylhexyl) phthalate	<0.17	F1	0.17	0.063	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Carbazole	<0.17	F1	0.17	0.086	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Chrysene	<0.034		0.034	0.0094	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Dimethyl phthalate	<0.17	F1	0.17	0.045	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Fluoranthene	<0.034		0.034	0.0064	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Hexachlorobenzene	<0.069		0.069	0.0080	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B13

Lab Sample ID: 500-215647-4

Date Collected: 04/25/22 10:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.2

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	<0.034		0.034	0.0089	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Isophorone	<0.17	F1	0.17	0.039	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Naphthalene	0.0066	J	0.034	0.0053	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
N-Nitrosodi-n-propylamine	<0.069	F1	0.069	0.042	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
N-Nitrosodiphenylamine	<0.17	F1	0.17	0.040	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Pentachlorophenol	<0.69	F1	0.69	0.55	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Phenol	<0.17	F1 *	0.17	0.076	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Pyrene	<0.034		0.034	0.0068	mg/Kg	☆	05/06/22 12:09	05/18/22 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		31 - 143				05/06/22 12:09	05/18/22 18:59	1
2-Fluorobiphenyl	82		43 - 145				05/06/22 12:09	05/18/22 18:59	1
2-Fluorophenol	65		31 - 166				05/06/22 12:09	05/18/22 18:59	1
Nitrobenzene-d5 (Surr)	78		37 - 147				05/06/22 12:09	05/18/22 18:59	1
Phenol-d5	7	S1-	30 - 153				05/06/22 12:09	05/18/22 18:59	1
Terphenyl-d14 (Surr)	111		42 - 157				05/06/22 12:09	05/18/22 18:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Arsenic	2.9		0.52	0.18	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Barium	10		1.0	0.12	mg/Kg	☆	05/02/22 16:21	05/03/22 21:21	2
Beryllium	0.26		0.21	0.049	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Boron	6.1		2.6	0.24	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Cadmium	0.068	J	0.10	0.019	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Calcium	120000		52	8.9	mg/Kg	☆	05/02/22 16:21	05/03/22 21:25	5
Chromium	5.4	B	0.52	0.26	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Cobalt	2.6		0.26	0.068	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Copper	9.7	B	0.52	0.15	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Iron	7000	B	21	11	mg/Kg	☆	05/02/22 16:21	05/03/22 21:21	2
Lead	4.3		0.26	0.12	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Magnesium	55000		10	5.2	mg/Kg	☆	05/02/22 16:21	05/03/22 21:21	2
Manganese	250		0.52	0.076	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Nickel	6.7		0.52	0.15	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Potassium	490		26	9.3	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Selenium	<0.52		0.52	0.31	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Silver	<0.26		0.26	0.067	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Sodium	190		100	15	mg/Kg	☆	05/02/22 16:21	05/03/22 21:21	2
Thallium	<0.52		0.52	0.26	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Vanadium	7.0		0.26	0.062	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	1
Zinc	22		1.0	0.46	mg/Kg	☆	05/02/22 16:21	05/03/22 13:48	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		05/03/22 15:31	05/04/22 13:39	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 13:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 13:39	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 13:39	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B13

Lab Sample ID: 500-215647-4

Date Collected: 04/25/22 10:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 13:39	1
Calcium	6.8		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:39	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:39	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:39	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 13:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 13:39	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:39	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:39	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:39	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 13:39	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:39	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 10:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0058	J	0.017	0.0057	mg/Kg	☼	05/04/22 14:15	05/05/22 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*- F1 ^+	0.25	0.12	mg/Kg	☼	05/03/22 11:46	05/03/22 15:48	1
pH	8.7		0.2	0.2	SU			04/29/22 13:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B12

Lab Sample ID: 500-215647-5

Date Collected: 04/25/22 10:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Acetone	0.0082	J	0.019	0.0082	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Toluene	0.00065	J	0.0019	0.00047	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✳	04/26/22 17:25	04/27/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/26/22 17:25	04/27/22 16:07	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/26/22 17:25	04/27/22 16:07	1
Dibromofluoromethane	107		75 - 126	04/26/22 17:25	04/27/22 16:07	1
Toluene-d8 (Surr)	97		75 - 124	04/26/22 17:25	04/27/22 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✳	05/06/22 12:09	05/18/22 20:00	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 20:00	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	✳	05/06/22 12:09	05/18/22 20:00	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	✳	05/06/22 12:09	05/18/22 20:00	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✳	05/06/22 12:09	05/18/22 20:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B12

Lab Sample ID: 500-215647-5

Date Collected: 04/25/22 10:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2,4,6-Trichlorophenol	<0.35	*-	0.35	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2,4-Dimethylphenol	<0.35	*-	0.35	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2-Chlorophenol	<0.18	*-	0.18	0.060	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2-Methylphenol	<0.18	*-	0.18	0.056	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
3 & 4 Methylphenol	<0.18	*-	0.18	0.059	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
3,3'-Dichlorobenzidine	<0.18	*-	0.18	0.049	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
3-Nitroaniline	<0.35	*-	0.35	0.11	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
4-Chloro-3-methylphenol	<0.35	*-	0.35	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
4-Chloroaniline	<0.71	*-	0.71	0.16	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
4-Nitroaniline	<0.35	*-	0.35	0.15	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
4-Nitrophenol	<0.71	*-	0.71	0.33	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Acenaphthene	0.0067	J	0.035	0.0063	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Anthracene	0.011	J	0.035	0.0059	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Benzo[a]anthracene	0.023	J	0.035	0.0047	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Benzo[a]pyrene	0.016	J	0.035	0.0068	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Benzo[b]fluoranthene	0.055		0.035	0.0076	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Benzo[g,h,i]perylene	0.043		0.035	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Benzo[k]fluoranthene	0.032	J	0.035	0.010	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Chrysene	0.037		0.035	0.0096	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Dibenz(a,h)anthracene	0.023	J	0.035	0.0068	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Fluoranthene	0.036		0.035	0.0065	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Fluorene	0.0075	J	0.035	0.0049	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Hexachlorobenzene	0.023	J	0.071	0.0081	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B12

Lab Sample ID: 500-215647-5

Date Collected: 04/25/22 10:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 92.8

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	0.030	J	0.035	0.0091	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Naphthalene	0.0060	J	0.035	0.0054	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Phenanthrene	0.0072	J	0.035	0.0049	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Phenol	<0.18	*	0.18	0.078	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Pyrene	0.042		0.035	0.0070	mg/Kg	☼	05/06/22 12:09	05/18/22 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		31 - 143				05/06/22 12:09	05/18/22 20:00	1
2-Fluorobiphenyl	81		43 - 145				05/06/22 12:09	05/18/22 20:00	1
2-Fluorophenol	38		31 - 166				05/06/22 12:09	05/18/22 20:00	1
Nitrobenzene-d5 (Surr)	82		37 - 147				05/06/22 12:09	05/18/22 20:00	1
Phenol-d5	3	S1-	30 - 153				05/06/22 12:09	05/18/22 20:00	1
Terphenyl-d14 (Surr)	87		42 - 157				05/06/22 12:09	05/18/22 20:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.0	0.20	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Arsenic	3.9		0.52	0.18	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Barium	25		1.0	0.12	mg/Kg	☼	05/02/22 16:21	05/03/22 21:29	2
Beryllium	0.27		0.21	0.049	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Boron	4.7		2.6	0.24	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Cadmium	0.065	J	0.10	0.019	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Calcium	100000		52	8.9	mg/Kg	☼	05/02/22 16:21	05/03/22 21:32	5
Chromium	6.8	B	0.52	0.26	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Cobalt	3.7		0.26	0.069	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Copper	11	B	0.52	0.15	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Iron	9200	B	21	11	mg/Kg	☼	05/02/22 16:21	05/03/22 21:29	2
Lead	8.6		0.26	0.12	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Magnesium	49000		10	5.2	mg/Kg	☼	05/02/22 16:21	05/03/22 21:29	2
Manganese	300		0.52	0.076	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Nickel	8.6		0.52	0.15	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Potassium	490		26	9.3	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Sodium	170		100	15	mg/Kg	☼	05/02/22 16:21	05/03/22 21:29	2
Thallium	<0.52		0.52	0.26	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Vanadium	11		0.26	0.062	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1
Zinc	31		1.0	0.46	mg/Kg	☼	05/02/22 16:21	05/03/22 13:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/03/22 15:28	05/04/22 17:44	1
Manganese	0.67		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:44	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B12

Lab Sample ID: 500-215647-5

Date Collected: 04/25/22 10:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 92.8

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		05/03/22 15:31	05/04/22 13:59	1
Barium	0.068	J	0.50	0.050	mg/L		05/03/22 15:31	05/04/22 13:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 13:59	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 13:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 13:59	1
Calcium	12		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:59	1
Chromium	0.014	J	0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:59	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:59	1
Iron	12		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 13:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 13:59	1
Manganese	0.17		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:59	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:59	1
Potassium	2.3	J	2.5	0.50	mg/L		05/03/22 15:31	05/04/22 13:59	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 13:59	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 13:59	1
Zinc	0.071	J	0.50	0.020	mg/L		05/03/22 15:31	05/04/22 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 19:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 10:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.016	0.0054	mg/Kg	⊛	05/04/22 14:15	05/05/22 07:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*- ^+	0.25	0.12	mg/Kg	⊛	05/03/22 11:46	05/03/22 15:53	1
pH	8.5		0.2	0.2	SU			04/29/22 13:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B11

Lab Sample ID: 500-215647-6

Date Collected: 04/25/22 10:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Acetone	<0.020		0.020	0.0085	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/26/22 17:25	04/27/22 16:33	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/26/22 17:25	04/27/22 16:33	1
Dibromofluoromethane	106		75 - 126	04/26/22 17:25	04/27/22 16:33	1
Toluene-d8 (Surr)	95		75 - 124	04/26/22 17:25	04/27/22 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B11

Lab Sample ID: 500-215647-6

Date Collected: 04/25/22 10:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2,4,6-Trichlorophenol	<0.36	*-	0.36	0.13	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2,4-Dimethylphenol	<0.36	*-	0.36	0.14	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2-Chlorophenol	<0.18	*-	0.18	0.063	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2-Methylphenol	<0.18	*-	0.18	0.059	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
3 & 4 Methylphenol	<0.18	*-	0.18	0.061	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
3,3'-Dichlorobenzidine	<0.18	*-	0.18	0.051	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
3-Nitroaniline	<0.36	*-	0.36	0.11	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
4-Chloro-3-methylphenol	<0.36	*-	0.36	0.12	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
4-Chloroaniline	<0.74	*-	0.74	0.17	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
4-Nitroaniline	<0.36	*-	0.36	0.15	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
4-Nitrophenol	<0.74	*-	0.74	0.35	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Benzo[a]anthracene	0.016	J	0.036	0.0049	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Benzo[b]fluoranthene	0.025	J	0.036	0.0079	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Benzo[g,h,i]perylene	0.023	J	0.036	0.012	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Carbazole	<0.18		0.18	0.092	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Chrysene	0.035	J	0.036	0.010	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Dibenz(a,h)anthracene	0.017	J	0.036	0.0071	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Fluoranthene	0.026	J	0.036	0.0068	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	✳	05/06/22 12:09	05/18/22 20:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B11

Lab Sample ID: 500-215647-6

Date Collected: 04/25/22 10:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 88.3

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	0.024	J	0.036	0.0095	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
Phenanthrene	0.016	J	0.036	0.0051	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
Phenol	<0.18	*	0.18	0.082	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
Pyrene	0.046		0.036	0.0073	mg/Kg	☼	05/06/22 12:09	05/18/22 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		31 - 143				05/06/22 12:09	05/18/22 20:20	1
2-Fluorobiphenyl	74		43 - 145				05/06/22 12:09	05/18/22 20:20	1
2-Fluorophenol	71		31 - 166				05/06/22 12:09	05/18/22 20:20	1
Nitrobenzene-d5 (Surr)	64		37 - 147				05/06/22 12:09	05/18/22 20:20	1
Phenol-d5	56		30 - 153				05/06/22 12:09	05/18/22 20:20	1
Terphenyl-d14 (Surr)	89		42 - 157				05/06/22 12:09	05/18/22 20:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Arsenic	4.5		0.54	0.18	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Barium	27		1.1	0.12	mg/Kg	☼	05/02/22 16:21	05/03/22 21:45	2
Beryllium	0.29		0.22	0.050	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Boron	4.8		2.7	0.25	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Cadmium	0.092	J	0.11	0.019	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Calcium	120000		54	9.1	mg/Kg	☼	05/02/22 16:21	05/03/22 21:48	5
Chromium	7.3	B	0.54	0.27	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Cobalt	4.2		0.27	0.071	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Copper	12	B	0.54	0.15	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Iron	10000	B	22	11	mg/Kg	☼	05/02/22 16:21	05/03/22 21:45	2
Lead	10		0.27	0.12	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Magnesium	63000		11	5.3	mg/Kg	☼	05/02/22 16:21	05/03/22 21:45	2
Manganese	330		0.54	0.078	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Nickel	10		0.54	0.16	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Potassium	500		27	9.5	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Silver	<0.27		0.27	0.069	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Sodium	290		110	16	mg/Kg	☼	05/02/22 16:21	05/03/22 21:45	2
Thallium	<0.54		0.54	0.27	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Vanadium	12		0.27	0.064	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	1
Zinc	32		1.1	0.47	mg/Kg	☼	05/02/22 16:21	05/03/22 13:55	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		05/03/22 15:28	05/04/22 17:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 17:48	1
Manganese	0.66		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B11

Lab Sample ID: 500-215647-6

Date Collected: 04/25/22 10:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 88.3

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		05/03/22 15:31	05/04/22 14:02	1
Barium	0.19	J	0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:02	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:02	1
Calcium	15		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:02	1
Chromium	0.039		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:02	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:02	1
Iron	40		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:02	1
Lead	0.024		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:02	1
Manganese	0.57		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:02	1
Nickel	0.032		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:02	1
Potassium	5.2		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:02	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:02	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:02	1
Zinc	0.14	J	0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 19:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0059	mg/Kg	⊛	05/04/22 14:15	05/05/22 07:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27	*- ^+	0.27	0.13	mg/Kg	⊛	05/03/22 11:46	05/03/22 15:54	1
pH	8.6		0.2	0.2	SU			04/29/22 13:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B03-1

Lab Sample ID: 500-215647-7

Date Collected: 04/25/22 11:00

Matrix: Solid

Date Received: 04/26/22 14:02

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	☆	04/26/22 17:25	04/27/22 16:59	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Acetone	<0.019		0.019	0.0082	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☆	04/26/22 17:25	04/27/22 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/26/22 17:25	04/27/22 16:59	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/26/22 17:25	04/27/22 16:59	1
Dibromofluoromethane	110		75 - 126	04/26/22 17:25	04/27/22 16:59	1
Toluene-d8 (Surr)	96		75 - 124	04/26/22 17:25	04/27/22 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B03-1

Lab Sample ID: 500-215647-7

Date Collected: 04/25/22 11:00

Matrix: Solid

Date Received: 04/26/22 14:02

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	0.092	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2,4,6-Trichlorophenol	<0.40	*-	0.40	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2,4-Dimethylphenol	<0.40	*-	0.40	0.15	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2-Chlorophenol	<0.20	*-	0.20	0.069	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2-Methylphenol	<0.20	*-	0.20	0.065	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
3 & 4 Methylphenol	<0.20	*-	0.20	0.067	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
3,3'-Dichlorobenzidine	<0.20	*-	0.20	0.057	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
3-Nitroaniline	<0.40	*-	0.40	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
4-Chloro-3-methylphenol	<0.40	*-	0.40	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
4-Chloroaniline	<0.82	*-	0.82	0.19	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
4-Nitroaniline	<0.40	*-	0.40	0.17	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
4-Nitrophenol	<0.82	*-	0.82	0.38	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Fluoranthene	0.0082	J	0.040	0.0075	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 20:41	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B03-1

Lab Sample ID: 500-215647-7

Date Collected: 04/25/22 11:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
Phenanthrene	0.0059	J	0.040	0.0056	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
Phenol	<0.20	*	0.20	0.090	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
Pyrene	0.013	J	0.040	0.0080	mg/Kg	☆	05/06/22 12:09	05/18/22 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		31 - 143				05/06/22 12:09	05/18/22 20:41	1
2-Fluorobiphenyl	65		43 - 145				05/06/22 12:09	05/18/22 20:41	1
2-Fluorophenol	68		31 - 166				05/06/22 12:09	05/18/22 20:41	1
Nitrobenzene-d5 (Surr)	64		37 - 147				05/06/22 12:09	05/18/22 20:41	1
Phenol-d5	61		30 - 153				05/06/22 12:09	05/18/22 20:41	1
Terphenyl-d14 (Surr)	74		42 - 157				05/06/22 12:09	05/18/22 20:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.22	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Arsenic	7.4		0.56	0.19	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Barium	93		0.56	0.064	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Beryllium	0.81		0.22	0.052	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Boron	2.7	J	2.8	0.26	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Cadmium	0.021	J	0.11	0.020	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Calcium	2000		11	1.9	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Chromium	15	B	0.56	0.28	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Cobalt	11		0.28	0.074	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Copper	16	B	0.56	0.16	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Iron	18000	B	11	5.8	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Lead	15		0.28	0.13	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Magnesium	3300		5.6	2.8	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Manganese	580		0.56	0.081	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Nickel	28		0.56	0.16	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Potassium	890		28	9.9	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Silver	0.47		0.28	0.072	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Sodium	100		56	8.3	mg/Kg	☆	05/02/22 16:21	05/03/22 21:52	1
Thallium	0.40	J	0.56	0.28	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Vanadium	27		0.28	0.066	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	1
Zinc	61		1.1	0.49	mg/Kg	☆	05/02/22 16:21	05/03/22 13:58	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		05/03/22 15:28	05/04/22 17:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 17:51	1
Manganese	0.021	J	0.025	0.010	mg/L		05/03/22 15:28	05/04/22 17:51	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B03-1

Lab Sample ID: 500-215647-7

Date Collected: 04/25/22 11:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025	J	0.050	0.010	mg/L		05/03/22 15:31	05/04/22 14:05	1
Barium	0.42	J	0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:05	1
Boron	0.059	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:05	1
Calcium	9.2		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:05	1
Chromium	0.079		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:05	1
Cobalt	0.017	J	0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:05	1
Iron	82		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:05	1
Lead	0.029		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:05	1
Manganese	1.0		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:05	1
Nickel	0.082		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:05	1
Potassium	7.6		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:05	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:05	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:05	1
Zinc	0.26	J	0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 17:53	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		05/04/22 10:05	05/05/22 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0065	mg/Kg	⊛	05/04/22 14:15	05/05/22 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16	J*-	0.28	0.14	mg/Kg	⊛	05/03/22 11:46	05/03/22 16:27	1
pH	8.2		0.2	0.2	SU			04/28/22 18:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B03-2

Lab Sample ID: 500-215647-8

Date Collected: 04/25/22 11:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Acetone	<0.019		0.019	0.0083	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✱	04/26/22 17:25	04/27/22 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/26/22 17:25	04/27/22 17:25	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/26/22 17:25	04/27/22 17:25	1
Dibromofluoromethane	109		75 - 126	04/26/22 17:25	04/27/22 17:25	1
Toluene-d8 (Surr)	96		75 - 124	04/26/22 17:25	04/27/22 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	✱	05/06/22 12:09	05/18/22 21:01	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	✱	05/06/22 12:09	05/18/22 21:01	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	✱	05/06/22 12:09	05/18/22 21:01	1
1,4-Dichlorobenzene	<0.17		0.17	0.045	mg/Kg	✱	05/06/22 12:09	05/18/22 21:01	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	✱	05/06/22 12:09	05/18/22 21:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B03-2

Lab Sample ID: 500-215647-8

Date Collected: 04/25/22 11:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2,4,6-Trichlorophenol	<0.34	*-	0.34	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2,4-Dimethylphenol	<0.34	*-	0.34	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2-Chlorophenol	<0.17	*-	0.17	0.059	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2-Methylphenol	<0.17	*-	0.17	0.056	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
3 & 4 Methylphenol	<0.17	*-	0.17	0.058	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
3,3'-Dichlorobenzidine	<0.17	*-	0.17	0.049	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
3-Nitroaniline	<0.34	*-	0.34	0.11	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
4-Chloro-3-methylphenol	<0.34	*-	0.34	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
4-Chloroaniline	<0.70	*-	0.70	0.16	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
4-Nitroaniline	<0.34	*-	0.34	0.15	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
4-Nitrophenol	<0.70	*-	0.70	0.33	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Acenaphthylene	<0.034		0.034	0.0046	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Benzo[a]anthracene	<0.034		0.034	0.0047	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Benzo[a]pyrene	<0.034		0.034	0.0067	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Benzo[b]fluoranthene	<0.034		0.034	0.0075	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Carbazole	<0.17		0.17	0.087	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Chrysene	<0.034		0.034	0.0095	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Di-n-octyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Fluoranthene	<0.034		0.034	0.0064	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Fluorene	<0.034		0.034	0.0049	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Hexachlorobutadiene	<0.17		0.17	0.055	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 21:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B03-2

Lab Sample ID: 500-215647-8

Date Collected: 04/25/22 11:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.9

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	<0.034		0.034	0.0090	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
Isophorone	<0.17		0.17	0.039	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
Naphthalene	0.0070	J	0.034	0.0053	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
Nitrobenzene	<0.034		0.034	0.0087	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
Phenol	<0.17	*	0.17	0.077	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
Pyrene	<0.034		0.034	0.0069	mg/Kg	✳	05/06/22 12:09	05/18/22 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		31 - 143				05/06/22 12:09	05/18/22 21:01	1
2-Fluorobiphenyl	69		43 - 145				05/06/22 12:09	05/18/22 21:01	1
2-Fluorophenol	46		31 - 166				05/06/22 12:09	05/18/22 21:01	1
Nitrobenzene-d5 (Surr)	69		37 - 147				05/06/22 12:09	05/18/22 21:01	1
Phenol-d5	2	S1-	30 - 153				05/06/22 12:09	05/18/22 21:01	1
Terphenyl-d14 (Surr)	96		42 - 157				05/06/22 12:09	05/18/22 21:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21	J	1.0	0.20	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Arsenic	3.0		0.51	0.17	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Barium	17		2.5	0.29	mg/Kg	✳	05/02/22 16:21	05/03/22 21:59	5
Beryllium	0.24		0.20	0.047	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Boron	5.0		2.5	0.24	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Cadmium	0.060	J	0.10	0.018	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Calcium	130000		51	8.6	mg/Kg	✳	05/02/22 16:21	05/03/22 21:59	5
Chromium	6.7	B	0.51	0.25	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Cobalt	3.1		0.25	0.066	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Copper	9.1	B	0.51	0.14	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Iron	9200	B	51	26	mg/Kg	✳	05/02/22 16:21	05/03/22 21:59	5
Lead	4.3		0.25	0.12	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Magnesium	66000		25	13	mg/Kg	✳	05/02/22 16:21	05/03/22 21:59	5
Manganese	380		0.51	0.073	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Nickel	9.0		0.51	0.15	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Potassium	440		25	9.0	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Selenium	<0.51		0.51	0.30	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Silver	<0.25		0.25	0.065	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Sodium	220		100	15	mg/Kg	✳	05/02/22 16:21	05/03/22 21:55	2
Thallium	<0.51		0.51	0.25	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Vanadium	8.4		0.25	0.060	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	1
Zinc	25		1.0	0.45	mg/Kg	✳	05/02/22 16:21	05/03/22 14:01	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		05/03/22 15:31	05/04/22 14:08	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:08	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B03-2

Lab Sample ID: 500-215647-8

Date Collected: 04/25/22 11:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:08	1
Calcium	7.3		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:08	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:08	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:08	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:08	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:08	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:08	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:08	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:08	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:08	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 17:56	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		05/04/22 10:05	05/05/22 10:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	J	0.016	0.0053	mg/Kg	☼	05/04/22 14:15	05/05/22 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23	*- ^+	0.23	0.11	mg/Kg	☼	05/03/22 11:46	05/03/22 15:58	1
pH	8.9		0.2	0.2	SU			04/29/22 13:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B16-1

Lab Sample ID: 500-215647-9

Date Collected: 04/25/22 11:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Acetone	<0.018		0.018	0.0079	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	04/26/22 17:25	04/27/22 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/26/22 17:25	04/27/22 17:51	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/26/22 17:25	04/27/22 17:51	1
Dibromofluoromethane	109		75 - 126	04/26/22 17:25	04/27/22 17:51	1
Toluene-d8 (Surr)	95		75 - 124	04/26/22 17:25	04/27/22 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	✳	05/06/22 12:09	05/18/22 21:21	1
1,2-Dichlorobenzene	<0.17	*3	0.17	0.040	mg/Kg	✳	05/06/22 12:09	05/18/22 21:21	1
1,3-Dichlorobenzene	<0.17	*3	0.17	0.038	mg/Kg	✳	05/06/22 12:09	05/18/22 21:21	1
1,4-Dichlorobenzene	<0.17	*3	0.17	0.043	mg/Kg	✳	05/06/22 12:09	05/18/22 21:21	1
2,2'-oxybis[1-chloropropane]	<0.17	*3	0.17	0.039	mg/Kg	✳	05/06/22 12:09	05/18/22 21:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B16-1

Lab Sample ID: 500-215647-9

Date Collected: 04/25/22 11:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2,4,6-Trichlorophenol	<0.33	*-	0.33	0.11	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2,4-Dichlorophenol	<0.33		0.33	0.080	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2,4-Dimethylphenol	<0.33	*-	0.33	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2,4-Dinitrophenol	<0.68		0.68	0.59	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2-Chlorophenol	<0.17	*- *3	0.17	0.057	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2-Methylnaphthalene	<0.068		0.068	0.0062	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2-Methylphenol	<0.17	*- *3	0.17	0.054	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
3 & 4 Methylphenol	<0.17	*- *3	0.17	0.056	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
3,3'-Dichlorobenzidine	<0.17	*-	0.17	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
3-Nitroaniline	<0.33	*-	0.33	0.10	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
4-Chloro-3-methylphenol	<0.33	*-	0.33	0.11	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
4-Chloroaniline	<0.68	*-	0.68	0.16	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
4-Nitroaniline	<0.33	*-	0.33	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
4-Nitrophenol	<0.68	*-	0.68	0.32	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Anthracene	<0.033		0.033	0.0056	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Benzo[a]pyrene	<0.033		0.033	0.0065	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Benzo[k]fluoranthene	<0.033		0.033	0.0099	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Bis(2-chloroethyl)ether	<0.17	*3	0.17	0.050	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Carbazole	<0.17		0.17	0.084	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Chrysene	<0.033		0.033	0.0091	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0065	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1
Hexachloroethane	<0.17	*3	0.17	0.051	mg/Kg	☼	05/06/22 12:09	05/18/22 21:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B16-1

Lab Sample ID: 500-215647-9

Date Collected: 04/25/22 11:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.7

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	<0.033		0.033	0.0087	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
Naphthalene	0.0059	J	0.033	0.0051	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
Nitrobenzene	<0.033		0.033	0.0084	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
N-Nitrosodi-n-propylamine	<0.068	*3	0.068	0.041	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
Phenanthrene	<0.033		0.033	0.0047	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
Phenol	<0.17	*- *3	0.17	0.074	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
Pyrene	<0.033		0.033	0.0067	mg/Kg	☆	05/06/22 12:09	05/18/22 21:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		31 - 143				05/06/22 12:09	05/18/22 21:21	1
2-Fluorobiphenyl	64		43 - 145				05/06/22 12:09	05/18/22 21:21	1
2-Fluorophenol	7	S1- *3	31 - 166				05/06/22 12:09	05/18/22 21:21	1
Nitrobenzene-d5 (Surr)	62		37 - 147				05/06/22 12:09	05/18/22 21:21	1
Phenol-d5	0	S1- *3	30 - 153				05/06/22 12:09	05/18/22 21:21	1
Terphenyl-d14 (Surr)	76		42 - 157				05/06/22 12:09	05/18/22 21:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Arsenic	3.2		0.52	0.18	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Barium	8.7		1.0	0.12	mg/Kg	☆	05/02/22 16:21	05/03/22 22:02	2
Beryllium	0.18	J	0.21	0.049	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Boron	4.1		2.6	0.24	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Cadmium	0.053	J	0.10	0.019	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Calcium	120000		52	8.8	mg/Kg	☆	05/02/22 16:21	05/03/22 22:05	5
Chromium	5.1	B	0.52	0.26	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Cobalt	2.8		0.26	0.068	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Copper	9.3	B	0.52	0.15	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Iron	7300	B	21	11	mg/Kg	☆	05/02/22 16:21	05/03/22 22:02	2
Lead	5.0		0.26	0.12	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Magnesium	50000		10	5.2	mg/Kg	☆	05/02/22 16:21	05/03/22 22:02	2
Manganese	320		0.52	0.075	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Nickel	7.3		0.52	0.15	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Potassium	350		26	9.2	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Selenium	<0.52		0.52	0.31	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Silver	<0.26		0.26	0.067	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Sodium	160		100	15	mg/Kg	☆	05/02/22 16:21	05/03/22 22:02	2
Thallium	<0.52		0.52	0.26	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Vanadium	6.4		0.26	0.061	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	1
Zinc	26		1.0	0.46	mg/Kg	☆	05/02/22 16:21	05/03/22 14:04	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		05/03/22 15:31	05/04/22 14:11	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:11	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:11	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B16-1

Lab Sample ID: 500-215647-9

Date Collected: 04/25/22 11:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:11	1
Calcium	7.0		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:11	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:11	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:11	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:11	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:11	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:11	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:11	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:11	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:11	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00033		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.016	0.0053	mg/Kg	⊛	05/04/22 14:15	05/05/22 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.22	*-	0.22	0.11	mg/Kg	⊛	05/03/22 11:46	05/03/22 16:03	1
pH	8.8		0.2	0.2	SU			04/29/22 13:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B16-2

Lab Sample ID: 500-215647-10

Date Collected: 04/25/22 11:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Acetone	<0.018		0.018	0.0080	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Toluene	0.00052	J	0.0018	0.00046	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✱	04/26/22 17:25	04/27/22 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/26/22 17:25	04/27/22 18:17	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/26/22 17:25	04/27/22 18:17	1
Dibromofluoromethane	108		75 - 126	04/26/22 17:25	04/27/22 18:17	1
Toluene-d8 (Surr)	96		75 - 124	04/26/22 17:25	04/27/22 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	✱	05/06/22 12:09	05/18/22 21:42	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	✱	05/06/22 12:09	05/18/22 21:42	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	✱	05/06/22 12:09	05/18/22 21:42	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	✱	05/06/22 12:09	05/18/22 21:42	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	✱	05/06/22 12:09	05/18/22 21:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B16-2

Lab Sample ID: 500-215647-10

Date Collected: 04/25/22 11:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2,4,6-Trichlorophenol	<0.34	*-	0.34	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2,4-Dimethylphenol	<0.34	*-	0.34	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2,4-Dinitrophenol	<0.69		0.69	0.60	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2-Chlorophenol	<0.17	*-	0.17	0.058	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2-Methylnaphthalene	<0.069		0.069	0.0063	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2-Methylphenol	<0.17	*-	0.17	0.055	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
3 & 4 Methylphenol	<0.17	*-	0.17	0.057	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
3,3'-Dichlorobenzidine	<0.17	*-	0.17	0.048	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
3-Nitroaniline	<0.34	*-	0.34	0.11	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.27	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
4-Chloro-3-methylphenol	<0.34	*-	0.34	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
4-Chloroaniline	<0.69	*-	0.69	0.16	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
4-Nitroaniline	<0.34	*-	0.34	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
4-Nitrophenol	<0.69	*-	0.69	0.33	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Chrysene	<0.034		0.034	0.0093	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 21:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B16-2

Lab Sample ID: 500-215647-10

Date Collected: 04/25/22 11:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 96.3

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	<0.034		0.034	0.0089	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
Naphthalene	0.016	J	0.034	0.0053	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
Phenol	<0.17	*	0.17	0.076	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1
Pyrene	<0.034		0.034	0.0068	mg/Kg	☆	05/06/22 12:09	05/18/22 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		31 - 143	05/06/22 12:09	05/18/22 21:42	1
2-Fluorobiphenyl	75		43 - 145	05/06/22 12:09	05/18/22 21:42	1
2-Fluorophenol	67		31 - 166	05/06/22 12:09	05/18/22 21:42	1
Nitrobenzene-d5 (Surr)	74		37 - 147	05/06/22 12:09	05/18/22 21:42	1
Phenol-d5	7	S1-	30 - 153	05/06/22 12:09	05/18/22 21:42	1
Terphenyl-d14 (Surr)	89		42 - 157	05/06/22 12:09	05/18/22 21:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.19	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Arsenic	4.3		0.50	0.17	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Barium	15		0.99	0.11	mg/Kg	☆	05/02/22 16:21	05/03/22 22:09	2
Beryllium	0.19	J	0.20	0.046	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Boron	3.7		2.5	0.23	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Cadmium	0.050	J	0.099	0.018	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Calcium	110000		50	8.4	mg/Kg	☆	05/02/22 16:21	05/03/22 22:12	5
Chromium	6.1	B	0.50	0.25	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Cobalt	3.3		0.25	0.065	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Copper	11	B	0.50	0.14	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Iron	8600	B	20	10	mg/Kg	☆	05/02/22 16:21	05/03/22 22:09	2
Lead	4.6		0.25	0.11	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Magnesium	52000		9.9	4.9	mg/Kg	☆	05/02/22 16:21	05/03/22 22:09	2
Manganese	280		0.50	0.072	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Nickel	8.5		0.50	0.14	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Potassium	460		25	8.8	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Selenium	<0.50		0.50	0.29	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Silver	<0.25		0.25	0.064	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Sodium	220		99	15	mg/Kg	☆	05/02/22 16:21	05/03/22 22:09	2
Thallium	<0.50		0.50	0.25	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Vanadium	9.0		0.25	0.058	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	1
Zinc	31		0.99	0.44	mg/Kg	☆	05/02/22 16:21	05/03/22 14:08	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		05/03/22 15:31	05/04/22 14:14	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:14	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B16-2

Lab Sample ID: 500-215647-10

Date Collected: 04/25/22 11:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:14	1
Calcium	6.8		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:14	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:14	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:14	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:14	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:14	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:14	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:14	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:14	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:14	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.016	0.0054	mg/Kg	☼	05/04/22 14:15	05/05/22 08:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*-	0.25	0.12	mg/Kg	☼	05/03/22 11:46	05/03/22 16:05	1
pH	8.8		0.2	0.2	SU			04/29/22 13:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B17

Lab Sample ID: 500-215647-11

Date Collected: 04/25/22 12:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Acetone	<0.019		0.019	0.0081	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✱	04/26/22 17:25	04/27/22 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	04/26/22 17:25	04/27/22 18:43	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/26/22 17:25	04/27/22 18:43	1
Dibromofluoromethane	110		75 - 126	04/26/22 17:25	04/27/22 18:43	1
Toluene-d8 (Surr)	95		75 - 124	04/26/22 17:25	04/27/22 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	✱	05/06/22 12:09	05/18/22 22:02	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✱	05/06/22 12:09	05/18/22 22:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✱	05/06/22 12:09	05/18/22 22:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✱	05/06/22 12:09	05/18/22 22:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	✱	05/06/22 12:09	05/18/22 22:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B17

Lab Sample ID: 500-215647-11

Date Collected: 04/25/22 12:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2,4,6-Trichlorophenol	<0.36	*-	0.36	0.12	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2,4-Dimethylphenol	<0.36	*-	0.36	0.14	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2-Chlorophenol	<0.18	*-	0.18	0.062	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2-Methylnaphthalene	<0.073		0.073	0.0066	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2-Methylphenol	<0.18	*-	0.18	0.058	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
3 & 4 Methylphenol	<0.18	*-	0.18	0.060	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
3,3'-Dichlorobenzidine	<0.18	*-	0.18	0.051	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
3-Nitroaniline	<0.36	*-	0.36	0.11	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
4-Chloro-3-methylphenol	<0.36	*-	0.36	0.12	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
4-Chloroaniline	<0.73	*-	0.73	0.17	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
4-Nitroaniline	<0.36	*-	0.36	0.15	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
4-Nitrophenol	<0.73	*-	0.73	0.34	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Benzo[a]anthracene	0.023	J	0.036	0.0049	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Benzo[a]pyrene	0.054		0.036	0.0070	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Benzo[b]fluoranthene	0.070		0.036	0.0078	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Benzo[g,h,i]perylene	0.039		0.036	0.012	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Benzo[k]fluoranthene	0.029	J	0.036	0.011	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Carbazole	<0.18		0.18	0.090	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Chrysene	0.046		0.036	0.0098	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Dibenz(a,h)anthracene	0.0076	J	0.036	0.0070	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Fluoranthene	0.083		0.036	0.0067	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B17

Lab Sample ID: 500-215647-11

Date Collected: 04/25/22 12:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.040		0.036	0.0094	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Isophorone	<0.18		0.18	0.041	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Naphthalene	0.0099	J	0.036	0.0056	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Phenanthrene	0.030	J	0.036	0.0050	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Phenol	<0.18	*	0.18	0.080	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Pyrene	0.073		0.036	0.0072	mg/Kg	✳	05/06/22 12:09	05/18/22 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		31 - 143				05/06/22 12:09	05/18/22 22:02	1
2-Fluorobiphenyl	80		43 - 145				05/06/22 12:09	05/18/22 22:02	1
2-Fluorophenol	57		31 - 166				05/06/22 12:09	05/18/22 22:02	1
Nitrobenzene-d5 (Surr)	75		37 - 147				05/06/22 12:09	05/18/22 22:02	1
Phenol-d5	43		30 - 153				05/06/22 12:09	05/18/22 22:02	1
Terphenyl-d14 (Surr)	87		42 - 157				05/06/22 12:09	05/18/22 22:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21	J	1.1	0.21	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Arsenic	3.5		0.54	0.18	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Barium	31		1.1	0.12	mg/Kg	✳	05/02/22 16:21	05/03/22 22:42	2
Beryllium	0.29		0.22	0.050	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Boron	4.2		2.7	0.25	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Cadmium	0.15		0.11	0.019	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Calcium	110000		54	9.1	mg/Kg	✳	05/02/22 16:21	05/03/22 22:45	5
Chromium	9.3	B	0.54	0.27	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Cobalt	3.6		0.27	0.070	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Copper	12	B	0.54	0.15	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Iron	7700	B	22	11	mg/Kg	✳	05/02/22 16:21	05/03/22 22:42	2
Lead	16		0.27	0.12	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Magnesium	48000		11	5.3	mg/Kg	✳	05/02/22 16:21	05/03/22 22:42	2
Manganese	310		0.54	0.078	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Nickel	8.4		0.54	0.16	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Potassium	550		27	9.5	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Silver	<0.27		0.27	0.069	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Sodium	220		110	16	mg/Kg	✳	05/02/22 16:21	05/03/22 22:42	2
Thallium	<0.54		0.54	0.27	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Vanadium	9.9		0.27	0.063	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	1
Zinc	42		1.1	0.47	mg/Kg	✳	05/02/22 16:21	05/03/22 14:11	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		05/03/22 15:28	05/04/22 18:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 18:15	1
Manganese	0.36		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B17

Lab Sample ID: 500-215647-11

Date Collected: 04/25/22 12:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 90.4

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		05/03/22 15:31	05/04/22 14:18	1
Barium	0.16	J	0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:18	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:18	1
Calcium	15		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:18	1
Chromium	0.031		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:18	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:18	1
Iron	25		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:18	1
Lead	0.046		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:18	1
Manganese	0.42		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:18	1
Nickel	0.019	J	0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:18	1
Potassium	5.6		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:18	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:18	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:18	1
Zinc	0.19	J	0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:18	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		05/03/22 15:31	05/04/22 20:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 18:07	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		05/04/22 10:05	05/05/22 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0079	J	0.017	0.0057	mg/Kg	⚠	05/04/22 14:15	05/05/22 08:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24	*-	0.24	0.12	mg/Kg	⚠	05/03/22 11:46	05/03/22 16:06	1
pH	8.4		0.2	0.2	SU			04/29/22 13:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B04-1

Lab Sample ID: 500-215647-12

Date Collected: 04/25/22 12:15

Matrix: Solid

Date Received: 04/26/22 14:02

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	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Acetone	<0.018		0.018	0.0079	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Carbon disulfide	<0.0045		0.0045	0.00095	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	04/26/22 17:25	04/27/22 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/26/22 17:25	04/27/22 19:09	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/26/22 17:25	04/27/22 19:09	1
Dibromofluoromethane	110		75 - 126	04/26/22 17:25	04/27/22 19:09	1
Toluene-d8 (Surr)	96		75 - 124	04/26/22 17:25	04/27/22 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B04-1

Lab Sample ID: 500-215647-12

Date Collected: 04/25/22 12:15

Matrix: Solid

Date Received: 04/26/22 14:02

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	<0.37		0.37	0.085	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2,4,6-Trichlorophenol	<0.37	*-	0.37	0.13	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2,4-Dimethylphenol	<0.37	*-	0.37	0.14	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2-Chlorophenol	<0.19	*-	0.19	0.064	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2-Methylphenol	<0.19	*-	0.19	0.060	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
3 & 4 Methylphenol	<0.19	*-	0.19	0.062	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
3,3'-Dichlorobenzidine	<0.19	*-	0.19	0.052	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
3-Nitroaniline	<0.37	*-	0.37	0.12	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
4-Chloro-3-methylphenol	<0.37	*-	0.37	0.13	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
4-Chloroaniline	<0.76	*-	0.76	0.18	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
4-Nitroaniline	<0.37	*-	0.37	0.16	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
4-Nitrophenol	<0.76	*-	0.76	0.36	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Benzo[a]anthracene	0.0093	J	0.037	0.0050	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Benzo[b]fluoranthene	0.022	J	0.037	0.0081	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Chrysene	0.017	J	0.037	0.010	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Fluoranthene	0.027	J	0.037	0.0069	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☆	05/06/22 12:09	05/18/22 22:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B04-1

Lab Sample ID: 500-215647-12

Date Collected: 04/25/22 12:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
Phenanthrene	0.014	J	0.037	0.0052	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
Phenol	<0.19	*	0.19	0.083	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
Pyrene	0.034	J	0.037	0.0074	mg/Kg	✳	05/06/22 12:09	05/18/22 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		31 - 143				05/06/22 12:09	05/18/22 22:22	1
2-Fluorobiphenyl	77		43 - 145				05/06/22 12:09	05/18/22 22:22	1
2-Fluorophenol	80		31 - 166				05/06/22 12:09	05/18/22 22:22	1
Nitrobenzene-d5 (Surr)	69		37 - 147				05/06/22 12:09	05/18/22 22:22	1
Phenol-d5	61		30 - 153				05/06/22 12:09	05/18/22 22:22	1
Terphenyl-d14 (Surr)	84		42 - 157				05/06/22 12:09	05/18/22 22:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.22	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Arsenic	7.9		0.57	0.20	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Barium	86		0.57	0.065	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Beryllium	0.74		0.23	0.053	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Boron	3.0		2.9	0.27	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Cadmium	0.034	J	0.11	0.021	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Calcium	28000		11	1.9	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Chromium	14	B	0.57	0.28	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Cobalt	9.3		0.29	0.075	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Copper	17	B	0.57	0.16	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Iron	18000	B	11	5.9	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Lead	15		0.29	0.13	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Magnesium	17000		5.7	2.8	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Manganese	550		0.57	0.083	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Nickel	23		0.57	0.17	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Potassium	840		29	10	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Selenium	<0.57		0.57	0.34	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Silver	0.30		0.29	0.074	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Sodium	77		57	8.5	mg/Kg	✳	05/02/22 16:21	05/03/22 22:49	1
Thallium	<0.57		0.57	0.28	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Vanadium	25		0.29	0.067	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	1
Zinc	61		1.1	0.50	mg/Kg	✳	05/02/22 16:21	05/03/22 14:14	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		05/03/22 15:28	05/04/22 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 18:18	1
Manganese	0.18		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:18	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B04-1

Lab Sample ID: 500-215647-12

Date Collected: 04/25/22 12:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.016	J	0.050	0.010	mg/L		05/03/22 15:31	05/04/22 14:21	1
Barium	0.31	J	0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:21	1
Boron	0.094	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:21	1
Calcium	15		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:21	1
Chromium	0.061		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:21	1
Cobalt	0.012	J	0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:21	1
Iron	60		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:21	1
Lead	0.020		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:21	1
Manganese	0.77		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:21	1
Nickel	0.049		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:21	1
Potassium	6.2		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:21	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:21	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:21	1
Zinc	0.18	J	0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/05/22 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 11:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0061	mg/Kg	⊛	05/04/22 14:15	05/05/22 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14	J*-	0.27	0.14	mg/Kg	⊛	05/03/22 11:46	05/03/22 16:08	1
pH	8.0		0.2	0.2	SU			04/28/22 18:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B04-2

Lab Sample ID: 500-215647-13

Date Collected: 04/25/22 12:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00088	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Acetone	0.0092	J	0.021	0.0090	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	04/26/22 17:25	04/27/22 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/26/22 17:25	04/27/22 19:34	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/26/22 17:25	04/27/22 19:34	1
Dibromofluoromethane	110		75 - 126	04/26/22 17:25	04/27/22 19:34	1
Toluene-d8 (Surr)	97		75 - 124	04/26/22 17:25	04/27/22 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B04-2

Lab Sample ID: 500-215647-13

Date Collected: 04/25/22 12:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.33		0.33	0.077	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2,4,6-Trichlorophenol	<0.33	*-	0.33	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2,4-Dichlorophenol	<0.33		0.33	0.080	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2,4-Dimethylphenol	<0.33	*-	0.33	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2,4-Dinitrophenol	<0.68		0.68	0.59	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2-Chlorophenol	<0.17	*-	0.17	0.057	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2-Methylnaphthalene	<0.068		0.068	0.0062	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2-Methylphenol	<0.17	*-	0.17	0.054	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
2-Nitrophenol	<0.33		0.33	0.080	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
3 & 4 Methylphenol	<0.17	*-	0.17	0.056	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
3,3'-Dichlorobenzidine	<0.17	*-	0.17	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
3-Nitroaniline	<0.33	*-	0.33	0.10	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
4-Chloro-3-methylphenol	<0.33	*-	0.33	0.11	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
4-Chloroaniline	<0.68	*-	0.68	0.16	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
4-Nitroaniline	<0.33	*-	0.33	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
4-Nitrophenol	<0.68	*-	0.68	0.32	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Benzo[a]pyrene	<0.033		0.033	0.0065	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0073	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Benzo[k]fluoranthene	<0.033		0.033	0.0099	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Carbazole	<0.17		0.17	0.084	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Chrysene	<0.033		0.033	0.0092	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0065	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B04-2

Lab Sample ID: 500-215647-13

Date Collected: 04/25/22 12:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0087	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Naphthalene	0.0061	J	0.033	0.0052	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Nitrobenzene	<0.033		0.033	0.0084	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
N-Nitrosodi-n-propylamine	<0.068		0.068	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Phenanthrene	<0.033		0.033	0.0047	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Phenol	<0.17	*	0.17	0.075	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Pyrene	<0.033		0.033	0.0067	mg/Kg	☼	05/06/22 12:09	05/18/22 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		31 - 143				05/06/22 12:09	05/18/22 22:43	1
2-Fluorobiphenyl	78		43 - 145				05/06/22 12:09	05/18/22 22:43	1
2-Fluorophenol	71		31 - 166				05/06/22 12:09	05/18/22 22:43	1
Nitrobenzene-d5 (Surr)	77		37 - 147				05/06/22 12:09	05/18/22 22:43	1
Phenol-d5	45		30 - 153				05/06/22 12:09	05/18/22 22:43	1
Terphenyl-d14 (Surr)	83		42 - 157				05/06/22 12:09	05/18/22 22:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Arsenic	2.6		0.50	0.17	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Barium	16		1.0	0.11	mg/Kg	☼	05/02/22 16:21	05/03/22 22:52	2
Beryllium	0.20		0.20	0.047	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Boron	4.0		2.5	0.23	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Cadmium	0.041	J	0.10	0.018	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Calcium	110000		50	8.5	mg/Kg	☼	05/02/22 16:21	05/03/22 22:55	5
Chromium	4.7	B	0.50	0.25	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Cobalt	3.1		0.25	0.066	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Copper	9.0	B	0.50	0.14	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Iron	7000	B	20	10	mg/Kg	☼	05/02/22 16:21	05/03/22 22:52	2
Lead	3.9		0.25	0.12	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Magnesium	58000		10	5.0	mg/Kg	☼	05/02/22 16:21	05/03/22 22:52	2
Manganese	280		0.50	0.073	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Nickel	6.8		0.50	0.15	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Potassium	420		25	8.9	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Selenium	<0.50		0.50	0.30	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Silver	<0.25		0.25	0.065	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Sodium	210		100	15	mg/Kg	☼	05/02/22 16:21	05/03/22 22:52	2
Thallium	<0.50		0.50	0.25	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Vanadium	7.0		0.25	0.059	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	1
Zinc	26		1.0	0.44	mg/Kg	☼	05/02/22 16:21	05/03/22 14:24	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		05/03/22 15:31	05/04/22 14:30	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:30	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:30	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B04-2

Lab Sample ID: 500-215647-13

Date Collected: 04/25/22 12:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:30	1
Calcium	6.8		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:30	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:30	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:30	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:30	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:30	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:30	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:30	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:30	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:30	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/04/22 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 11:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0090	J	0.015	0.0051	mg/Kg	☼	05/04/22 14:15	05/05/22 08:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24	*-	0.24	0.12	mg/Kg	☼	05/03/22 11:46	05/03/22 16:10	1
pH	8.6		0.2	0.2	SU			04/29/22 14:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B10

Lab Sample ID: 500-215647-14

Date Collected: 04/25/22 12:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Acetone	<0.019		0.019	0.0083	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/26/22 17:25	04/27/22 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/26/22 17:25	04/27/22 20:00	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/26/22 17:25	04/27/22 20:00	1
Dibromofluoromethane	109		75 - 126	04/26/22 17:25	04/27/22 20:00	1
Toluene-d8 (Surr)	95		75 - 124	04/26/22 17:25	04/27/22 20:00	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	✳	05/06/22 12:09	05/18/22 23:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	05/06/22 12:09	05/18/22 23:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	05/06/22 12:09	05/18/22 23:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	05/06/22 12:09	05/18/22 23:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✳	05/06/22 12:09	05/18/22 23:03	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B10

Lab Sample ID: 500-215647-14

Date Collected: 04/25/22 12:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2,4,6-Trichlorophenol	<0.39	*-	0.39	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2,4-Dimethylphenol	<0.39	*-	0.39	0.15	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2-Chlorophenol	<0.20	*-	0.20	0.067	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2-Methylphenol	<0.20	*-	0.20	0.063	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
3 & 4 Methylphenol	<0.20	*-	0.20	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
3,3'-Dichlorobenzidine	<0.20	*-	0.20	0.055	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
3-Nitroaniline	<0.39	*-	0.39	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
4-Chloro-3-methylphenol	<0.39	*-	0.39	0.13	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
4-Chloroaniline	<0.80	*-	0.80	0.19	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
4-Nitroaniline	<0.39	*-	0.39	0.17	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
4-Nitrophenol	<0.80	*-	0.80	0.38	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/06/22 12:09	05/18/22 23:03	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B10

Lab Sample ID: 500-215647-14

Date Collected: 04/25/22 12:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
Phenol	<0.20	*	0.20	0.088	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☆	05/06/22 12:09	05/18/22 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143				05/06/22 12:09	05/18/22 23:03	1
2-Fluorobiphenyl	70		43 - 145				05/06/22 12:09	05/18/22 23:03	1
2-Fluorophenol	76		31 - 166				05/06/22 12:09	05/18/22 23:03	1
Nitrobenzene-d5 (Surr)	64		37 - 147				05/06/22 12:09	05/18/22 23:03	1
Phenol-d5	57		30 - 153				05/06/22 12:09	05/18/22 23:03	1
Terphenyl-d14 (Surr)	83		42 - 157				05/06/22 12:09	05/18/22 23:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.2	0.24	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Arsenic	7.4		0.61	0.21	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Barium	110		0.61	0.069	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Beryllium	0.82		0.24	0.057	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Boron	2.6	J	3.0	0.28	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Calcium	2200	B	12	2.1	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Chromium	15	B	0.61	0.30	mg/Kg	☆	05/02/22 16:25	05/04/22 17:22	1
Cobalt	9.3		0.30	0.079	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Copper	15		0.61	0.17	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Iron	18000	B	12	6.3	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Lead	12		0.30	0.14	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Magnesium	3100	B	6.1	3.0	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Manganese	520		0.61	0.088	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Nickel	24		0.61	0.18	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Potassium	800		30	11	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Selenium	<0.61		0.61	0.36	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Silver	0.35		0.30	0.078	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Sodium	880		61	9.0	mg/Kg	☆	05/02/22 16:25	05/04/22 17:22	1
Thallium	<0.61		0.61	0.30	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Vanadium	26		0.30	0.072	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1
Zinc	55		1.2	0.53	mg/Kg	☆	05/02/22 16:25	05/03/22 14:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/03/22 15:28	05/04/22 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:28	05/04/22 18:21	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:21	1
Iron	0.26	J	0.40	0.20	mg/L		05/03/22 15:28	05/04/22 18:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B10

Lab Sample ID: 500-215647-14

Date Collected: 04/25/22 12:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 18:21	1
Manganese	0.047		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:21	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.062		0.050	0.010	mg/L		05/03/22 15:31	05/04/22 14:34	1
Barium	1.1		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:34	1
Beryllium	0.0081		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:34	1
Boron	0.084	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:34	1
Calcium	17		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:34	1
Chromium	0.16		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:34	1
Cobalt	0.049		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:34	1
Iron	180		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:34	1
Lead	0.079		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:34	1
Manganese	2.8		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:34	1
Nickel	0.21		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:34	1
Potassium	13		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:34	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:34	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:34	1
Zinc	0.55		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:34	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		05/03/22 15:31	05/04/22 20:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/04/22 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 11:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.019	0.0062	mg/Kg	☆	05/04/22 14:15	05/05/22 08:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16	J*-	0.30	0.15	mg/Kg	☆	05/03/22 11:46	05/03/22 16:11	1
pH	7.9		0.2	0.2	SU			04/28/22 18:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B09

Lab Sample ID: 500-215647-15

Date Collected: 04/25/22 13:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00084	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Acetone	<0.019		0.019	0.0085	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Chloroform	<0.0019		0.0019	0.00068	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	✱	04/26/22 17:25	04/27/22 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/26/22 17:25	04/27/22 20:27	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/26/22 17:25	04/27/22 20:27	1
Dibromofluoromethane	109		75 - 126	04/26/22 17:25	04/27/22 20:27	1
Toluene-d8 (Surr)	96		75 - 124	04/26/22 17:25	04/27/22 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	✱	05/06/22 12:09	05/18/22 23:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✱	05/06/22 12:09	05/18/22 23:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✱	05/06/22 12:09	05/18/22 23:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	05/06/22 12:09	05/18/22 23:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	05/06/22 12:09	05/18/22 23:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B09

Lab Sample ID: 500-215647-15

Date Collected: 04/25/22 13:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2,4,6-Trichlorophenol	<0.40	*-	0.40	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2,4-Dimethylphenol	<0.40	*-	0.40	0.15	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2-Chlorophenol	<0.20	*-	0.20	0.068	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2-Methylphenol	<0.20	*-	0.20	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
3 & 4 Methylphenol	<0.20	*-	0.20	0.067	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
3,3'-Dichlorobenzidine	<0.20	*-	0.20	0.056	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
3-Nitroaniline	<0.40	*-	0.40	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
4-Chloro-3-methylphenol	<0.40	*-	0.40	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
4-Chloroaniline	<0.81	*-	0.81	0.19	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
4-Nitroaniline	<0.40	*-	0.40	0.17	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
4-Nitrophenol	<0.81	*-	0.81	0.38	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Benzo[a]anthracene	0.011	J	0.040	0.0054	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Benzo[a]pyrene	0.013	J	0.040	0.0078	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Benzo[b]fluoranthene	0.025	J	0.040	0.0087	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Chrysene	0.013	J	0.040	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Fluoranthene	0.027	J	0.040	0.0074	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B09

Lab Sample ID: 500-215647-15

Date Collected: 04/25/22 13:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.8

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	0.011	J	0.040	0.010	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Naphthalene	0.0071	J	0.040	0.0062	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Phenanthrene	0.011	J	0.040	0.0056	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Phenol	<0.20	*	0.20	0.089	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Pyrene	0.027	J	0.040	0.0080	mg/Kg	☼	05/06/22 12:09	05/18/22 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		31 - 143				05/06/22 12:09	05/18/22 23:23	1
2-Fluorobiphenyl	75		43 - 145				05/06/22 12:09	05/18/22 23:23	1
2-Fluorophenol	73		31 - 166				05/06/22 12:09	05/18/22 23:23	1
Nitrobenzene-d5 (Surr)	67		37 - 147				05/06/22 12:09	05/18/22 23:23	1
Phenol-d5	67		30 - 153				05/06/22 12:09	05/18/22 23:23	1
Terphenyl-d14 (Surr)	81		42 - 157				05/06/22 12:09	05/18/22 23:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.24	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Arsenic	8.1		0.61	0.21	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Barium	95		0.61	0.070	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Beryllium	0.83		0.24	0.057	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Boron	3.7		3.1	0.28	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Cadmium	0.060	J B	0.12	0.022	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Calcium	2800	B	12	2.1	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Chromium	20	B	0.61	0.30	mg/Kg	☼	05/02/22 16:25	05/04/22 17:25	1
Cobalt	10		0.31	0.080	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Copper	17		0.61	0.17	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Iron	19000	B	12	6.3	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Lead	31		0.31	0.14	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Magnesium	3100	B	6.1	3.0	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Manganese	470		0.61	0.088	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Nickel	31		0.61	0.18	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Potassium	1000		31	11	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Silver	0.49		0.31	0.079	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Sodium	400		61	9.0	mg/Kg	☼	05/02/22 16:25	05/04/22 17:25	1
Thallium	0.42	J	0.61	0.30	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Vanadium	27		0.31	0.072	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1
Zinc	76		1.2	0.54	mg/Kg	☼	05/02/22 16:25	05/03/22 14:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/03/22 15:28	05/04/22 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:28	05/04/22 18:25	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:25	1
Iron	0.44		0.40	0.20	mg/L		05/03/22 15:28	05/04/22 18:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B09

Lab Sample ID: 500-215647-15

Date Collected: 04/25/22 13:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 18:25	1
Manganese	0.055		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:25	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.057		0.050	0.010	mg/L		05/03/22 15:31	05/04/22 14:37	1
Barium	0.88		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:37	1
Beryllium	0.0074		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:37	1
Boron	0.078	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:37	1
Calcium	20		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:37	1
Chromium	0.14		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:37	1
Cobalt	0.039		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:37	1
Iron	160		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:37	1
Lead	0.12		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:37	1
Manganese	2.3		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:37	1
Nickel	0.18		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:37	1
Potassium	14		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:37	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:37	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:37	1
Zinc	0.55		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/04/22 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 11:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.019	0.0064	mg/Kg	☆	05/03/22 13:40	05/04/22 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	☆	05/06/22 11:08	05/06/22 13:29	1
pH	7.5		0.2	0.2	SU			04/28/22 18:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B20

Lab Sample ID: 500-215647-16

Date Collected: 04/25/22 13:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 80.0

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	✱	04/26/22 17:25	04/27/22 20:53	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Acetone	<0.019		0.019	0.0081	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✱	04/26/22 17:25	04/27/22 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	04/26/22 17:25	04/27/22 20:53	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/26/22 17:25	04/27/22 20:53	1
Dibromofluoromethane	108		75 - 126	04/26/22 17:25	04/27/22 20:53	1
Toluene-d8 (Surr)	97		75 - 124	04/26/22 17:25	04/27/22 20:53	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	✱	05/06/22 12:09	05/18/22 23:43	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✱	05/06/22 12:09	05/18/22 23:43	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✱	05/06/22 12:09	05/18/22 23:43	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	05/06/22 12:09	05/18/22 23:43	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	05/06/22 12:09	05/18/22 23:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B20

Lab Sample ID: 500-215647-16

Date Collected: 04/25/22 13:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2,4,6-Trichlorophenol	<0.40	*-	0.40	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2,4-Dimethylphenol	<0.40	*-	0.40	0.15	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2-Chlorophenol	<0.20	*-	0.20	0.068	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2-Methylphenol	<0.20	*-	0.20	0.064	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
3 & 4 Methylphenol	<0.20	*-	0.20	0.066	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
3,3'-Dichlorobenzidine	<0.20	*-	0.20	0.056	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
3-Nitroaniline	<0.40	*-	0.40	0.12	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
4-Chloro-3-methylphenol	<0.40	*-	0.40	0.14	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
4-Chloroaniline	<0.80	*-	0.80	0.19	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
4-Nitroaniline	<0.40	*-	0.40	0.17	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
4-Nitrophenol	<0.80	*-	0.80	0.38	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/06/22 12:09	05/18/22 23:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B20

Lab Sample ID: 500-215647-16

Date Collected: 04/25/22 13:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 80.0

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	<0.040		0.040	0.010	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
Naphthalene	0.0063	J	0.040	0.0061	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
Phenanthrene	<0.040		0.040	0.0055	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
Phenol	<0.20	*	0.20	0.088	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
Pyrene	0.012	J	0.040	0.0079	mg/Kg	☆	05/06/22 12:09	05/18/22 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		31 - 143				05/06/22 12:09	05/18/22 23:43	1
2-Fluorobiphenyl	57		43 - 145				05/06/22 12:09	05/18/22 23:43	1
2-Fluorophenol	63		31 - 166				05/06/22 12:09	05/18/22 23:43	1
Nitrobenzene-d5 (Surr)	53		37 - 147				05/06/22 12:09	05/18/22 23:43	1
Phenol-d5	56		30 - 153				05/06/22 12:09	05/18/22 23:43	1
Terphenyl-d14 (Surr)	78		42 - 157				05/06/22 12:09	05/18/22 23:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.2	0.24	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Arsenic	8.5		0.61	0.21	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Barium	100		0.61	0.070	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Beryllium	0.89		0.24	0.057	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Boron	2.4	J	3.1	0.28	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Calcium	2300	B	12	2.1	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Chromium	17	B	0.61	0.30	mg/Kg	☆	05/02/22 16:25	05/04/22 17:28	1
Cobalt	11		0.31	0.080	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Copper	18		0.61	0.17	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Iron	20000	B	12	6.3	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Lead	15		0.31	0.14	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Magnesium	2900	B	6.1	3.0	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Manganese	620		0.61	0.089	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Nickel	29		0.61	0.18	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Potassium	900		31	11	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Selenium	<0.61		0.61	0.36	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Silver	0.48		0.31	0.079	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Sodium	920		61	9.0	mg/Kg	☆	05/02/22 16:25	05/04/22 17:28	1
Thallium	0.48	J	0.61	0.30	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Vanadium	30		0.31	0.072	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	1
Zinc	61		1.2	0.54	mg/Kg	☆	05/02/22 16:25	05/03/22 14:50	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		05/03/22 15:28	05/04/22 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:28	05/04/22 18:28	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:28	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:28	05/04/22 18:28	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B20

Lab Sample ID: 500-215647-16

Date Collected: 04/25/22 13:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 80.0

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		05/03/22 15:28	05/04/22 18:28	1
Manganese	0.019	J	0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:28	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.075		0.050	0.010	mg/L		05/03/22 15:31	05/04/22 14:40	1
Barium	1.1		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:40	1
Beryllium	0.0096		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:40	1
Boron	0.071	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:40	1
Calcium	27		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:40	1
Chromium	0.18		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:40	1
Cobalt	0.061		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:40	1
Iron	220		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:40	1
Lead	0.11		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:40	1
Manganese	3.4		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:40	1
Nickel	0.25		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:40	1
Potassium	15		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:40	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:40	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:40	1
Zinc	0.67		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:40	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		05/03/22 15:28	05/06/22 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:44	1
Thallium	0.0024		0.0020	0.0020	mg/L		05/03/22 15:31	05/06/22 12:48	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		05/04/22 10:05	05/05/22 11:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.019	0.0065	mg/Kg	⊛	05/03/22 13:40	05/04/22 07:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.15	mg/Kg	⊛	05/06/22 11:08	05/06/22 13:54	1
pH	8.0		0.2	0.2	SU			04/28/22 18:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B21

Lab Sample ID: 500-215647-17

Date Collected: 04/25/22 13:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Acetone	<0.019		0.019	0.0085	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	✱	04/26/22 17:25	04/28/22 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	04/26/22 17:25	04/28/22 15:28	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/26/22 17:25	04/28/22 15:28	1
Dibromofluoromethane	110		75 - 126	04/26/22 17:25	04/28/22 15:28	1
Toluene-d8 (Surr)	112		75 - 124	04/26/22 17:25	04/28/22 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	✱	05/06/22 12:09	05/19/22 00:04	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	✱	05/06/22 12:09	05/19/22 00:04	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	✱	05/06/22 12:09	05/19/22 00:04	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✱	05/06/22 12:09	05/19/22 00:04	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✱	05/06/22 12:09	05/19/22 00:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B21

Lab Sample ID: 500-215647-17

Date Collected: 04/25/22 13:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2,4,6-Trichlorophenol	<0.41	*-	0.41	0.14	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2,4-Dimethylphenol	<0.41	*-	0.41	0.16	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2-Chlorophenol	<0.21	*-	0.21	0.071	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2-Methylphenol	<0.21	*-	0.21	0.067	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
3 & 4 Methylphenol	<0.21	*-	0.21	0.069	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
3,3'-Dichlorobenzidine	<0.21	*-	0.21	0.058	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
3-Nitroaniline	<0.41	*-	0.41	0.13	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
4-Chloro-3-methylphenol	<0.41	*-	0.41	0.14	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
4-Chloroaniline	<0.84	*-	0.84	0.20	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
4-Nitroaniline	<0.41	*-	0.41	0.17	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
4-Nitrophenol	<0.84	*-	0.84	0.40	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B21

Lab Sample ID: 500-215647-17

Date Collected: 04/25/22 13:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Phenol	<0.21	*	0.21	0.092	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	05/06/22 12:09	05/19/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		31 - 143				05/06/22 12:09	05/19/22 00:04	1
2-Fluorobiphenyl	71		43 - 145				05/06/22 12:09	05/19/22 00:04	1
2-Fluorophenol	69		31 - 166				05/06/22 12:09	05/19/22 00:04	1
Nitrobenzene-d5 (Surr)	62		37 - 147				05/06/22 12:09	05/19/22 00:04	1
Phenol-d5	41		30 - 153				05/06/22 12:09	05/19/22 00:04	1
Terphenyl-d14 (Surr)	80		42 - 157				05/06/22 12:09	05/19/22 00:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.24	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Arsenic	8.5		0.62	0.21	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Barium	100		0.62	0.070	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Beryllium	0.85		0.25	0.058	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Boron	2.8	J	3.1	0.29	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Calcium	2100	B	12	2.1	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Chromium	18	B	0.62	0.31	mg/Kg	☼	05/02/22 16:25	05/04/22 17:31	1
Cobalt	11		0.31	0.081	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Copper	18		0.62	0.17	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Iron	20000	B	12	6.4	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Lead	15		0.31	0.14	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Magnesium	3300	B	6.2	3.1	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Manganese	580		0.62	0.089	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Nickel	27		0.62	0.18	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Potassium	1000		31	11	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Selenium	0.40	J	0.62	0.36	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Silver	0.45		0.31	0.080	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Sodium	700		62	9.1	mg/Kg	☼	05/02/22 16:25	05/04/22 17:31	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Vanadium	31		0.31	0.073	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1
Zinc	63		1.2	0.54	mg/Kg	☼	05/02/22 16:25	05/03/22 14:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/03/22 15:28	05/04/22 18:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:28	05/04/22 18:31	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:31	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:28	05/04/22 18:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B21

Lab Sample ID: 500-215647-17

Date Collected: 04/25/22 13:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 18:31	1
Manganese	0.024	J	0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:31	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:31	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		05/03/22 15:31	05/04/22 14:43	1
Barium	1.1		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:43	1
Beryllium	0.0093		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:43	1
Boron	0.080	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:43	1
Calcium	22		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:43	1
Chromium	0.17		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:43	1
Cobalt	0.056		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:43	1
Iron	210		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:43	1
Lead	0.086		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:43	1
Manganese	3.1		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:43	1
Nickel	0.21		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:43	1
Potassium	15		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:43	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:43	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:43	1
Zinc	0.64		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:43	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		05/03/22 15:28	05/06/22 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:47	1
Thallium	0.0023		0.0020	0.0020	mg/L		05/03/22 15:31	05/06/22 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.019	0.0063	mg/Kg	⊛	05/03/22 13:40	05/04/22 07:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	⊛	05/06/22 11:08	05/06/22 13:56	1
pH	7.5		0.2	0.2	SU			04/28/22 18:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B22

Lab Sample ID: 500-215647-18

Date Collected: 04/25/22 13:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Acetone	<0.019		0.019	0.0082	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☆	04/26/22 17:25	04/28/22 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	04/26/22 17:25	04/28/22 15:53	1
4-Bromofluorobenzene (Surr)	101		75 - 131	04/26/22 17:25	04/28/22 15:53	1
Dibromofluoromethane	112		75 - 126	04/26/22 17:25	04/28/22 15:53	1
Toluene-d8 (Surr)	111		75 - 124	04/26/22 17:25	04/28/22 15:53	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	☆	05/06/22 12:09	05/19/22 00:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☆	05/06/22 12:09	05/19/22 00:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☆	05/06/22 12:09	05/19/22 00:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☆	05/06/22 12:09	05/19/22 00:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☆	05/06/22 12:09	05/19/22 00:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B22

Lab Sample ID: 500-215647-18

Date Collected: 04/25/22 13:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2,4,6-Trichlorophenol	<0.40	*-	0.40	0.14	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2,4-Dimethylphenol	<0.40	*-	0.40	0.15	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2-Chlorophenol	<0.20	*-	0.20	0.069	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2-Methylphenol	<0.20	*-	0.20	0.065	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
3 & 4 Methylphenol	<0.20	*-	0.20	0.067	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
3,3'-Dichlorobenzidine	<0.20	*-	0.20	0.056	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
3-Nitroaniline	<0.40	*-	0.40	0.12	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
4-Chloro-3-methylphenol	<0.40	*-	0.40	0.14	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
4-Chloroaniline	<0.81	*-	0.81	0.19	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
4-Nitroaniline	<0.40	*-	0.40	0.17	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
4-Nitrophenol	<0.81	*-	0.81	0.38	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Chrysene	<0.040		0.040	0.011	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✳	05/06/22 12:09	05/19/22 00:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B22

Lab Sample ID: 500-215647-18

Date Collected: 04/25/22 13:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
Phenol	<0.20	*	0.20	0.089	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1
Pyrene	0.0084	J	0.040	0.0080	mg/Kg	☼	05/06/22 12:09	05/19/22 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		31 - 143	05/06/22 12:09	05/19/22 00:24	1
2-Fluorobiphenyl	62		43 - 145	05/06/22 12:09	05/19/22 00:24	1
2-Fluorophenol	69		31 - 166	05/06/22 12:09	05/19/22 00:24	1
Nitrobenzene-d5 (Surr)	55		37 - 147	05/06/22 12:09	05/19/22 00:24	1
Phenol-d5	56		30 - 153	05/06/22 12:09	05/19/22 00:24	1
Terphenyl-d14 (Surr)	75		42 - 157	05/06/22 12:09	05/19/22 00:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Arsenic	8.5		0.60	0.21	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Barium	100		0.60	0.068	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Beryllium	0.86		0.24	0.056	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Boron	1.7	J	3.0	0.28	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Calcium	2100	B	12	2.0	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Chromium	17	B	0.60	0.30	mg/Kg	☼	05/02/22 16:25	05/04/22 17:35	1
Cobalt	11		0.30	0.079	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Copper	17		0.60	0.17	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Iron	20000	B	12	6.2	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Lead	15		0.30	0.14	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Magnesium	3000	B	6.0	3.0	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Manganese	600		0.60	0.087	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Nickel	24		0.60	0.17	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Potassium	870		30	11	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Selenium	0.49	J	0.60	0.35	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Silver	0.36		0.30	0.077	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Sodium	760		60	8.9	mg/Kg	☼	05/02/22 16:25	05/04/22 17:35	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Vanadium	28		0.30	0.071	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	1
Zinc	59		1.2	0.53	mg/Kg	☼	05/02/22 16:25	05/03/22 14:56	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		05/03/22 15:28	05/04/22 18:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:28	05/04/22 18:35	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:35	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:28	05/04/22 18:35	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B22

Lab Sample ID: 500-215647-18

Date Collected: 04/25/22 13:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:28	05/04/22 18:35	1
Manganese	0.030		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:35	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:28	05/04/22 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.079		0.050	0.010	mg/L		05/03/22 15:31	05/04/22 14:46	1
Barium	1.1		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:46	1
Beryllium	0.0096		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:46	1
Boron	0.071	J	0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:46	1
Calcium	26		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:46	1
Chromium	0.19		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:46	1
Cobalt	0.062		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:46	1
Iron	230		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:46	1
Lead	0.10		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:46	1
Manganese	3.3		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:46	1
Nickel	0.22		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:46	1
Potassium	15		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:46	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:46	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:46	1
Zinc	0.65		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:51	1
Thallium	0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/04/22 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 11:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.019	0.0065	mg/Kg	⊛	05/03/22 13:40	05/04/22 07:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30		0.30	0.15	mg/Kg	⊛	05/06/22 11:08	05/06/22 13:57	1
pH	7.7		0.2	0.2	SU			04/28/22 18:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B23

Lab Sample ID: 500-215647-19

Date Collected: 04/25/22 14:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.8

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	0.00060	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Acetone	0.021		0.018	0.0078	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	✳	04/26/22 17:25	04/28/22 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/26/22 17:25	04/28/22 16:17	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/26/22 17:25	04/28/22 16:17	1
Dibromofluoromethane	107		75 - 126	04/26/22 17:25	04/28/22 16:17	1
Toluene-d8 (Surr)	110		75 - 124	04/26/22 17:25	04/28/22 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	✳	05/06/22 12:09	05/19/22 00:44	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	✳	05/06/22 12:09	05/19/22 00:44	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	✳	05/06/22 12:09	05/19/22 00:44	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	✳	05/06/22 12:09	05/19/22 00:44	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	✳	05/06/22 12:09	05/19/22 00:44	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B23

Lab Sample ID: 500-215647-19

Date Collected: 04/25/22 14:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2,4,6-Trichlorophenol	<0.34	*-	0.34	0.12	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2,4-Dimethylphenol	<0.34	*-	0.34	0.13	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2-Chlorophenol	<0.17	*-	0.17	0.059	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2-Methylnaphthalene	<0.070		0.070	0.0063	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2-Methylphenol	<0.17	*-	0.17	0.055	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
3 & 4 Methylphenol	<0.17	*-	0.17	0.058	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
3,3'-Dichlorobenzidine	<0.17	*-	0.17	0.048	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
3-Nitroaniline	<0.34	*-	0.34	0.11	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
4-Chloro-3-methylphenol	<0.34	*-	0.34	0.12	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
4-Chloroaniline	<0.70	*-	0.70	0.16	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
4-Nitroaniline	<0.34	*-	0.34	0.14	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
4-Nitrophenol	<0.70	*-	0.70	0.33	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Acenaphthylene	<0.034		0.034	0.0046	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Benzo[a]pyrene	<0.034		0.034	0.0067	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Benzo[b]fluoranthene	<0.034		0.034	0.0075	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Carbazole	<0.17		0.17	0.086	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Chrysene	<0.034		0.034	0.0094	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Fluoranthene	<0.034		0.034	0.0064	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Fluorene	<0.034		0.034	0.0049	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	05/06/22 12:09	05/19/22 00:44	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B23

Lab Sample ID: 500-215647-19

Date Collected: 04/25/22 14:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.8

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	<0.034		0.034	0.0089	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
Naphthalene	0.0094	J	0.034	0.0053	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.042	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
Pentachlorophenol	<0.70		0.70	0.55	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
Phenol	<0.17	*	0.17	0.077	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
Pyrene	<0.034		0.034	0.0069	mg/Kg	☆	05/06/22 12:09	05/19/22 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		31 - 143				05/06/22 12:09	05/19/22 00:44	1
2-Fluorobiphenyl	86		43 - 145				05/06/22 12:09	05/19/22 00:44	1
2-Fluorophenol	73		31 - 166				05/06/22 12:09	05/19/22 00:44	1
Nitrobenzene-d5 (Surr)	76		37 - 147				05/06/22 12:09	05/19/22 00:44	1
Phenol-d5	48		30 - 153				05/06/22 12:09	05/19/22 00:44	1
Terphenyl-d14 (Surr)	87		42 - 157				05/06/22 12:09	05/19/22 00:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Arsenic	2.4		0.51	0.18	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Barium	12		1.0	0.12	mg/Kg	☆	05/02/22 16:25	05/04/22 17:38	2
Beryllium	0.19	J	0.21	0.048	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Boron	5.3		2.6	0.24	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Cadmium	0.077	J B	0.10	0.019	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Calcium	120000		51	8.7	mg/Kg	☆	05/02/22 16:25	05/04/22 17:41	5
Chromium	6.5	B	1.0	0.51	mg/Kg	☆	05/02/22 16:25	05/04/22 17:38	2
Cobalt	3.1		0.26	0.067	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Copper	14		0.51	0.14	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Iron	6800		21	11	mg/Kg	☆	05/02/22 16:25	05/04/22 17:38	2
Lead	2.7		0.26	0.12	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Magnesium	61000		10	5.1	mg/Kg	☆	05/02/22 16:25	05/04/22 17:38	2
Manganese	290		0.51	0.075	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Nickel	7.4		0.51	0.15	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Potassium	370		26	9.1	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Selenium	<0.51		0.51	0.30	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Silver	<0.26		0.26	0.066	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Sodium	190		100	15	mg/Kg	☆	05/02/22 16:25	05/04/22 17:38	2
Thallium	<0.51		0.51	0.26	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Vanadium	7.3		0.26	0.061	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	1
Zinc	20		1.0	0.45	mg/Kg	☆	05/02/22 16:25	05/03/22 14:59	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		05/03/22 15:31	05/04/22 14:49	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:49	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:49	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B23

Lab Sample ID: 500-215647-19

Date Collected: 04/25/22 14:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:49	1
Calcium	7.0		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:49	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:49	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:49	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:49	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:49	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:49	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:49	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:49	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:49	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:49	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		05/03/22 15:31	05/04/22 20:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/04/22 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/04/22 10:05	05/05/22 11:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0095	J	0.016	0.0053	mg/Kg	⊛	05/03/22 13:40	05/04/22 07:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	⊛	05/06/22 11:08	05/06/22 14:02	1
pH	8.7		0.2	0.2	SU			04/29/22 14:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B05

Lab Sample ID: 500-215647-20

Date Collected: 04/25/22 14:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Acetone	<0.019		0.019	0.0082	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	✳	04/26/22 17:25	04/28/22 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	04/26/22 17:25	04/28/22 16:41	1
4-Bromofluorobenzene (Surr)	100		75 - 131	04/26/22 17:25	04/28/22 16:41	1
Dibromofluoromethane	108		75 - 126	04/26/22 17:25	04/28/22 16:41	1
Toluene-d8 (Surr)	108		75 - 124	04/26/22 17:25	04/28/22 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B05

Lab Sample ID: 500-215647-20

Date Collected: 04/25/22 14:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2,4,6-Trichlorophenol	<0.35	*-	0.35	0.12	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2,4-Dimethylphenol	<0.35	*-	0.35	0.13	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2-Chlorophenol	<0.18	*-	0.18	0.060	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2-Methylnaphthalene	<0.071		0.071	0.0064	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2-Methylphenol	<0.18	*-	0.18	0.056	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
3 & 4 Methylphenol	<0.18	*-	0.18	0.058	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
3,3'-Dichlorobenzidine	<0.18	*-	0.18	0.049	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
3-Nitroaniline	<0.35	*-	0.35	0.11	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
4-Chloro-3-methylphenol	<0.35	*-	0.35	0.12	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
4-Chloroaniline	<0.71	*-	0.71	0.16	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
4-Nitroaniline	<0.35	*-	0.35	0.15	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
4-Nitrophenol	<0.71	*-	0.71	0.33	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Chrysene	<0.035		0.035	0.0096	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	05/06/22 12:09	05/19/22 01:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B05

Lab Sample ID: 500-215647-20

Date Collected: 04/25/22 14:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 91.8

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	<0.035		0.035	0.0091	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
Isophorone	<0.18		0.18	0.039	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
Naphthalene	0.013	J	0.035	0.0054	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
Phenol	<0.18	*	0.18	0.078	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	✳	05/06/22 12:09	05/19/22 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		31 - 143				05/06/22 12:09	05/19/22 01:04	1
2-Fluorobiphenyl	77		43 - 145				05/06/22 12:09	05/19/22 01:04	1
2-Fluorophenol	70		31 - 166				05/06/22 12:09	05/19/22 01:04	1
Nitrobenzene-d5 (Surr)	69		37 - 147				05/06/22 12:09	05/19/22 01:04	1
Phenol-d5	40		30 - 153				05/06/22 12:09	05/19/22 01:04	1
Terphenyl-d14 (Surr)	84		42 - 157				05/06/22 12:09	05/19/22 01:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.1	0.21	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Arsenic	2.7		0.54	0.18	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Barium	8.8		1.1	0.12	mg/Kg	✳	05/02/22 16:25	05/04/22 17:44	2
Beryllium	0.18	J	0.22	0.050	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Boron	3.6		2.7	0.25	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Cadmium	0.064	J B	0.11	0.019	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Calcium	80000		54	9.1	mg/Kg	✳	05/02/22 16:25	05/04/22 17:54	5
Chromium	4.6	B	1.1	0.53	mg/Kg	✳	05/02/22 16:25	05/04/22 17:44	2
Cobalt	2.7		0.27	0.071	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Copper	8.2		0.54	0.15	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Iron	6400		22	11	mg/Kg	✳	05/02/22 16:25	05/04/22 17:44	2
Lead	3.4		0.27	0.12	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Magnesium	41000		11	5.3	mg/Kg	✳	05/02/22 16:25	05/04/22 17:44	2
Manganese	280		0.54	0.078	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Nickel	6.5		0.54	0.16	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Potassium	350		27	9.5	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Selenium	<0.54		0.54	0.32	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Silver	<0.27		0.27	0.070	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Sodium	130		110	16	mg/Kg	✳	05/02/22 16:25	05/04/22 17:44	2
Thallium	<0.54		0.54	0.27	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Vanadium	7.1		0.27	0.064	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	1
Zinc	26		1.1	0.47	mg/Kg	✳	05/02/22 16:25	05/03/22 15:02	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		05/03/22 15:31	05/04/22 14:52	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:31	05/04/22 14:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:31	05/04/22 14:52	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:31	05/04/22 14:52	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B05

Lab Sample ID: 500-215647-20

Date Collected: 04/25/22 14:15

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:31	05/04/22 14:52	1
Calcium	7.2		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:52	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:52	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:52	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:31	05/04/22 14:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:31	05/04/22 14:52	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:52	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:52	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:31	05/04/22 14:52	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:31	05/04/22 14:52	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:31	05/04/22 14:52	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:31	05/04/22 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:31	05/04/22 20:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:31	05/04/22 20:58	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		05/04/22 10:05	05/05/22 11:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0087	J F1	0.017	0.0057	mg/Kg	⊛	05/03/22 13:40	05/04/22 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	⊛	05/06/22 11:08	05/06/22 14:04	1
pH	8.9		0.2	0.2	SU			04/29/22 14:04	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B18

Lab Sample ID: 500-215647-21

Date Collected: 04/25/22 14:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 89.1

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	0.00060	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Carbon disulfide	<0.0044		0.0044	0.00093	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Methylene Chloride	<0.0044		0.0044	0.0018	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☆	04/26/22 17:25	04/28/22 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/26/22 17:25	04/28/22 17:06	1
4-Bromofluorobenzene (Surr)	97		75 - 131	04/26/22 17:25	04/28/22 17:06	1
Dibromofluoromethane	107		75 - 126	04/26/22 17:25	04/28/22 17:06	1
Toluene-d8 (Surr)	110		75 - 124	04/26/22 17:25	04/28/22 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☆	05/09/22 13:23	05/10/22 15:45	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☆	05/09/22 13:23	05/10/22 15:45	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☆	05/09/22 13:23	05/10/22 15:45	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 15:45	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☆	05/09/22 13:23	05/10/22 15:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B18

Lab Sample ID: 500-215647-21

Date Collected: 04/25/22 14:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2-Methylnaphthalene	<0.072		0.072	0.0066	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2-Methylphenol	<0.18	F1	0.18	0.057	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Benzo[g,h,i]perylene	<0.035	F1	0.035	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Dibenz(a,h)anthracene	<0.035	F1	0.035	0.0069	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Hexachlorocyclopentadiene	<0.72	F1	0.72	0.20	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B18

Lab Sample ID: 500-215647-21

Date Collected: 04/25/22 14:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 89.1

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	<0.035	F1	0.035	0.0092	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1
Pyrene	<0.035		0.035	0.0071	mg/Kg	☼	05/09/22 13:23	05/10/22 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143	05/09/22 13:23	05/10/22 15:45	1
2-Fluorobiphenyl	90		43 - 145	05/09/22 13:23	05/10/22 15:45	1
2-Fluorophenol	100		31 - 166	05/09/22 13:23	05/10/22 15:45	1
Nitrobenzene-d5 (Surr)	73		37 - 147	05/09/22 13:23	05/10/22 15:45	1
Phenol-d5	87		30 - 153	05/09/22 13:23	05/10/22 15:45	1
Terphenyl-d14 (Surr)	136		42 - 157	05/09/22 13:23	05/10/22 15:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Arsenic	3.2		0.56	0.19	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Barium	13		1.1	0.13	mg/Kg	☼	05/02/22 16:25	05/04/22 17:58	2
Beryllium	0.21	J	0.22	0.052	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Boron	4.5		2.8	0.26	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Calcium	120000		56	9.5	mg/Kg	☼	05/02/22 16:25	05/04/22 18:01	5
Chromium	6.1	B	1.1	0.56	mg/Kg	☼	05/02/22 16:25	05/04/22 17:58	2
Cobalt	3.3		0.28	0.073	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Copper	8.9		0.56	0.16	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Iron	7300		22	12	mg/Kg	☼	05/02/22 16:25	05/04/22 17:58	2
Lead	4.4		0.28	0.13	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Magnesium	53000		11	5.6	mg/Kg	☼	05/02/22 16:25	05/04/22 17:58	2
Manganese	340		0.56	0.081	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Nickel	9.1		0.56	0.16	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Potassium	400		28	9.9	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Sodium	200		110	17	mg/Kg	☼	05/02/22 16:25	05/04/22 17:58	2
Thallium	<0.56		0.56	0.28	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Vanadium	7.8		0.28	0.066	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1
Zinc	30		1.1	0.49	mg/Kg	☼	05/02/22 16:25	05/03/22 15:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/03/22 15:29	05/04/22 15:26	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B18

Lab Sample ID: 500-215647-21

Date Collected: 04/25/22 14:30

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 89.1

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		05/03/22 15:34	05/04/22 12:17	1
Barium	0.050	J	0.50	0.050	mg/L		05/03/22 15:34	05/04/22 12:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:34	05/04/22 12:17	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:34	05/04/22 12:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:34	05/04/22 12:17	1
Calcium	12		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:17	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:17	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:17	1
Iron	8.3		0.40	0.20	mg/L		05/03/22 15:34	05/04/22 12:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:34	05/04/22 12:17	1
Manganese	0.13		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:17	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:17	1
Potassium	2.3	J	2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:17	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:34	05/04/22 12:17	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:17	1
Zinc	0.050	J	0.50	0.020	mg/L		05/03/22 15:34	05/04/22 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:34	05/04/22 21:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:34	05/04/22 21:15	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		05/03/22 11:55	05/04/22 11:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0059	mg/Kg	⊛	05/03/22 13:40	05/04/22 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	⊛	05/06/22 11:08	05/06/22 14:06	1
pH	8.8		0.2	0.2	SU			04/29/22 14:07	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B06

Lab Sample ID: 500-215647-22

Date Collected: 04/25/22 14:40

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Acetone	<0.019		0.019	0.0084	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Toluene	0.00054	J	0.0019	0.00049	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/26/22 17:25	04/28/22 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/26/22 17:25	04/28/22 17:30	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/26/22 17:25	04/28/22 17:30	1
Dibromofluoromethane	108		75 - 126	04/26/22 17:25	04/28/22 17:30	1
Toluene-d8 (Surr)	107		75 - 124	04/26/22 17:25	04/28/22 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✳	05/09/22 13:23	05/10/22 16:53	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✳	05/09/22 13:23	05/10/22 16:53	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	✳	05/09/22 13:23	05/10/22 16:53	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	✳	05/09/22 13:23	05/10/22 16:53	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✳	05/09/22 13:23	05/10/22 16:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B06

Lab Sample ID: 500-215647-22

Date Collected: 04/25/22 14:40

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2-Methylnaphthalene	<0.071		0.071	0.0064	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Chrysene	<0.035		0.035	0.0095	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B06

Lab Sample ID: 500-215647-22

Date Collected: 04/25/22 14:40

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.8

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	<0.035		0.035	0.0091	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Phenol	<0.18		0.18	0.078	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☆	05/09/22 13:23	05/10/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		31 - 143				05/09/22 13:23	05/10/22 16:53	1
2-Fluorobiphenyl	89		43 - 145				05/09/22 13:23	05/10/22 16:53	1
2-Fluorophenol	95		31 - 166				05/09/22 13:23	05/10/22 16:53	1
Nitrobenzene-d5 (Surr)	77		37 - 147				05/09/22 13:23	05/10/22 16:53	1
Phenol-d5	90		30 - 153				05/09/22 13:23	05/10/22 16:53	1
Terphenyl-d14 (Surr)	138		42 - 157				05/09/22 13:23	05/10/22 16:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Arsenic	3.9		0.52	0.18	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Barium	19		1.0	0.12	mg/Kg	☆	05/02/22 16:25	05/04/22 18:05	2
Beryllium	0.21		0.21	0.049	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Boron	3.3		2.6	0.24	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Cadmium	0.050	J B	0.10	0.019	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Calcium	94000		52	8.8	mg/Kg	☆	05/02/22 16:25	05/04/22 18:08	5
Chromium	7.3	B	1.0	0.51	mg/Kg	☆	05/02/22 16:25	05/04/22 18:05	2
Cobalt	3.7		0.52	0.14	mg/Kg	☆	05/02/22 16:25	05/04/22 18:05	2
Copper	9.6		0.52	0.15	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Iron	8800		21	11	mg/Kg	☆	05/02/22 16:25	05/04/22 18:05	2
Lead	4.4		0.26	0.12	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Magnesium	41000		10	5.2	mg/Kg	☆	05/02/22 16:25	05/04/22 18:05	2
Manganese	270		0.52	0.075	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Nickel	8.5		0.52	0.15	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Potassium	480		26	9.2	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Selenium	<0.52		0.52	0.31	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Silver	<0.26		0.26	0.067	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Sodium	150		100	15	mg/Kg	☆	05/02/22 16:25	05/04/22 18:05	2
Thallium	<0.52		0.52	0.26	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Vanadium	9.3		0.26	0.061	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	1
Zinc	31		1.0	0.46	mg/Kg	☆	05/02/22 16:25	05/03/22 15:09	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		05/03/22 15:34	05/04/22 12:20	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:34	05/04/22 12:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:34	05/04/22 12:20	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:34	05/04/22 12:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B06

Lab Sample ID: 500-215647-22

Date Collected: 04/25/22 14:40

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:34	05/04/22 12:20	1
Calcium	7.2		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:20	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:20	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:20	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:34	05/04/22 12:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:34	05/04/22 12:20	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:20	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:20	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:20	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:34	05/04/22 12:20	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:20	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:34	05/04/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:34	05/04/22 21:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:34	05/04/22 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/03/22 11:55	05/04/22 11:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0056	mg/Kg	⊛	05/03/22 13:40	05/04/22 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	⊛	05/06/22 11:08	05/06/22 14:07	1
pH	8.6		0.2	0.2	SU			04/29/22 14:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B06 Dup

Lab Sample ID: 500-215647-23

Date Collected: 04/25/22 14:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Acetone	<0.020		0.020	0.0088	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☆	04/26/22 17:25	04/28/22 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/26/22 17:25	04/28/22 17:54	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/26/22 17:25	04/28/22 17:54	1
Dibromofluoromethane	109		75 - 126	04/26/22 17:25	04/28/22 17:54	1
Toluene-d8 (Surr)	111		75 - 124	04/26/22 17:25	04/28/22 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☆	05/09/22 13:23	05/10/22 17:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☆	05/09/22 13:23	05/10/22 17:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☆	05/09/22 13:23	05/10/22 17:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☆	05/09/22 13:23	05/10/22 17:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☆	05/09/22 13:23	05/10/22 17:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B06 Dup

Lab Sample ID: 500-215647-23

Date Collected: 04/25/22 14:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.079	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.068	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2-Chloronaphthalene	<0.18		0.18	0.038	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2-Chlorophenol	<0.18		0.18	0.059	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Benzo[a]pyrene	<0.035		0.035	0.0067	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0067	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	05/09/22 13:23	05/10/22 17:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B06 Dup

Lab Sample ID: 500-215647-23

Date Collected: 04/25/22 14:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.6

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	<0.035		0.035	0.0090	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
Isophorone	<0.18		0.18	0.039	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.043	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
Phenol	<0.18		0.18	0.077	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	✱	05/09/22 13:23	05/10/22 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143				05/09/22 13:23	05/10/22 17:15	1
2-Fluorobiphenyl	81		43 - 145				05/09/22 13:23	05/10/22 17:15	1
2-Fluorophenol	92		31 - 166				05/09/22 13:23	05/10/22 17:15	1
Nitrobenzene-d5 (Surr)	69		37 - 147				05/09/22 13:23	05/10/22 17:15	1
Phenol-d5	86		30 - 153				05/09/22 13:23	05/10/22 17:15	1
Terphenyl-d14 (Surr)	123		42 - 157				05/09/22 13:23	05/10/22 17:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.20	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Arsenic	4.1		0.53	0.18	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Barium	9.1		1.1	0.12	mg/Kg	✱	05/02/22 16:25	05/04/22 18:11	2
Beryllium	0.22		0.21	0.049	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Boron	3.9		2.6	0.25	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Cadmium	0.068	J B	0.11	0.019	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Calcium	110000		53	8.9	mg/Kg	✱	05/02/22 16:25	05/04/22 18:14	5
Chromium	5.2	B	1.1	0.52	mg/Kg	✱	05/02/22 16:25	05/04/22 18:11	2
Cobalt	2.8		0.26	0.069	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Copper	11		0.53	0.15	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Iron	7500		21	11	mg/Kg	✱	05/02/22 16:25	05/04/22 18:11	2
Lead	4.5		0.26	0.12	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Magnesium	50000		11	5.2	mg/Kg	✱	05/02/22 16:25	05/04/22 18:11	2
Manganese	260		0.53	0.076	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Nickel	7.0		0.53	0.15	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Potassium	390		26	9.3	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Selenium	<0.53		0.53	0.31	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Silver	<0.26		0.26	0.068	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Sodium	130		110	16	mg/Kg	✱	05/02/22 16:25	05/04/22 18:11	2
Thallium	<0.53		0.53	0.26	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Vanadium	8.1		0.26	0.062	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	1
Zinc	27		1.1	0.46	mg/Kg	✱	05/02/22 16:25	05/03/22 15:12	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		05/03/22 15:34	05/04/22 12:41	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:34	05/04/22 12:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:34	05/04/22 12:41	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:34	05/04/22 12:41	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B06 Dup

Lab Sample ID: 500-215647-23

Date Collected: 04/25/22 14:45

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:34	05/04/22 12:41	1
Calcium	8.0		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:41	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:41	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:41	1
Iron	0.25	J	0.40	0.20	mg/L		05/03/22 15:34	05/04/22 12:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:34	05/04/22 12:41	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:41	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:41	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:41	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:34	05/04/22 12:41	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:41	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:34	05/04/22 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:34	05/04/22 21:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:34	05/04/22 21:32	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		05/03/22 11:55	05/04/22 12:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.016	0.0052	mg/Kg	⊛	05/03/22 13:40	05/04/22 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	⊛	05/06/22 11:08	05/06/22 14:09	1
pH	8.8		0.2	0.2	SU			04/29/22 14:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B02-1

Lab Sample ID: 500-215647-24

Date Collected: 04/25/22 14:55

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Acetone	0.014	J	0.019	0.0081	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✳	04/26/22 17:25	04/28/22 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	04/26/22 17:25	04/28/22 18:18	1
4-Bromofluorobenzene (Surr)	100		75 - 131	04/26/22 17:25	04/28/22 18:18	1
Dibromofluoromethane	106		75 - 126	04/26/22 17:25	04/28/22 18:18	1
Toluene-d8 (Surr)	108		75 - 124	04/26/22 17:25	04/28/22 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	✳	05/09/22 13:23	05/10/22 17:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	✳	05/09/22 13:23	05/10/22 17:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	✳	05/09/22 13:23	05/10/22 17:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	✳	05/09/22 13:23	05/10/22 17:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	✳	05/09/22 13:23	05/10/22 17:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B02-1

Lab Sample ID: 500-215647-24

Date Collected: 04/25/22 14:55

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.34		0.34	0.077	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2,4-Dichlorophenol	<0.34		0.34	0.080	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2,4-Dinitrophenol	<0.68		0.68	0.60	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2-Methylnaphthalene	<0.068		0.068	0.0062	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
2-Nitrophenol	<0.34		0.34	0.080	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Benzo[b]fluoranthene	<0.034		0.034	0.0073	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Chrysene	<0.034		0.034	0.0092	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0065	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Hexachlorobenzene	<0.068		0.068	0.0079	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	05/09/22 13:23	05/10/22 17:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B02-1

Lab Sample ID: 500-215647-24

Date Collected: 04/25/22 14:55

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.2

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	<0.034		0.034	0.0088	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
Naphthalene	<0.034		0.034	0.0052	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
N-Nitrosodi-n-propylamine	<0.068		0.068	0.041	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
Phenanthrene	<0.034		0.034	0.0047	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
Phenol	<0.17		0.17	0.075	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
Pyrene	<0.034		0.034	0.0067	mg/Kg	☆	05/09/22 13:23	05/10/22 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	54		31 - 143				05/09/22 13:23	05/10/22 17:38	1
2-Fluorobiphenyl	60		43 - 145				05/09/22 13:23	05/10/22 17:38	1
2-Fluorophenol	72		31 - 166				05/09/22 13:23	05/10/22 17:38	1
Nitrobenzene-d5 (Surr)	55		37 - 147				05/09/22 13:23	05/10/22 17:38	1
Phenol-d5	67		30 - 153				05/09/22 13:23	05/10/22 17:38	1
Terphenyl-d14 (Surr)	96		42 - 157				05/09/22 13:23	05/10/22 17:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21	J	1.0	0.20	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Arsenic	3.5		0.51	0.17	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Barium	11		1.0	0.12	mg/Kg	☆	05/02/22 16:25	05/04/22 18:18	2
Beryllium	0.22		0.20	0.048	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Boron	4.7		2.5	0.24	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Cadmium	0.065	J B	0.10	0.018	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Calcium	130000		51	8.6	mg/Kg	☆	05/02/22 16:25	05/04/22 18:21	5
Chromium	5.2	B	1.0	0.50	mg/Kg	☆	05/02/22 16:25	05/04/22 18:18	2
Cobalt	3.0		0.25	0.067	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Copper	10		0.51	0.14	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Iron	7500		20	11	mg/Kg	☆	05/02/22 16:25	05/04/22 18:18	2
Lead	4.5		0.25	0.12	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Magnesium	61000		10	5.1	mg/Kg	☆	05/02/22 16:25	05/04/22 18:18	2
Manganese	280		0.51	0.074	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Nickel	7.0		0.51	0.15	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Potassium	390		25	9.0	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Selenium	<0.51		0.51	0.30	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Silver	<0.25		0.25	0.066	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Sodium	150		100	15	mg/Kg	☆	05/02/22 16:25	05/04/22 18:18	2
Thallium	<0.51		0.51	0.25	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Vanadium	8.4		0.25	0.060	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	1
Zinc	24		1.0	0.45	mg/Kg	☆	05/02/22 16:25	05/03/22 15:15	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		05/03/22 15:34	05/04/22 12:44	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:34	05/04/22 12:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:34	05/04/22 12:44	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:34	05/04/22 12:44	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B02-1

Lab Sample ID: 500-215647-24

Date Collected: 04/25/22 14:55

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:34	05/04/22 12:44	1
Calcium	7.9		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:44	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:44	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:44	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:34	05/04/22 12:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:34	05/04/22 12:44	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:44	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:44	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:44	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:34	05/04/22 12:44	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:44	1
Zinc	0.035	J	0.50	0.020	mg/L		05/03/22 15:34	05/04/22 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		05/03/22 15:34	05/04/22 21:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:34	05/04/22 21:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/03/22 11:55	05/04/22 12:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0071	J	0.017	0.0056	mg/Kg	⊛	05/03/22 13:40	05/04/22 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	⊛	05/06/22 11:08	05/06/22 14:14	1
pH	8.8		0.2	0.2	SU			04/29/22 14:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B02-2

Lab Sample ID: 500-215647-25

Date Collected: 04/25/22 15:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00075	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00096	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
1,1-Dichloroethane	<0.0022		0.0022	0.00076	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
1,1-Dichloroethene	<0.0022		0.0022	0.00077	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
1,2-Dichloroethane	<0.0056		0.0056	0.0017	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
1,2-Dichloropropane	<0.0022		0.0022	0.00058	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00078	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0017	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Acetone	<0.022		0.022	0.0097	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Carbon tetrachloride	<0.0022		0.0022	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Chloroethane	<0.0056		0.0056	0.0017	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Chloroform	<0.0022		0.0022	0.00077	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Chloromethane	<0.0056		0.0056	0.0022	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Dibromochloromethane	<0.0022		0.0022	0.00073	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00065	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Tetrachloroethene	<0.0022		0.0022	0.00076	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00099	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Trichloroethene	<0.0022		0.0022	0.00075	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Vinyl chloride	<0.0022		0.0022	0.00099	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1
Xylenes, Total	<0.0045		0.0045	0.00071	mg/Kg	✳	04/26/22 17:25	04/28/22 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/26/22 17:25	04/28/22 18:43	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/26/22 17:25	04/28/22 18:43	1
Dibromofluoromethane	109		75 - 126	04/26/22 17:25	04/28/22 18:43	1
Toluene-d8 (Surr)	112		75 - 124	04/26/22 17:25	04/28/22 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	✳	05/09/22 13:23	05/10/22 18:01	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	✳	05/09/22 13:23	05/10/22 18:01	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	✳	05/09/22 13:23	05/10/22 18:01	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	✳	05/09/22 13:23	05/10/22 18:01	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	✳	05/09/22 13:23	05/10/22 18:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B02-2

Lab Sample ID: 500-215647-25

Date Collected: 04/25/22 15:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2,4-Dinitrophenol	<0.67		0.67	0.58	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
2-Nitrophenol	<0.33		0.33	0.078	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.046	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Anthracene	<0.033		0.033	0.0055	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Carbazole	<0.17		0.17	0.083	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Chrysene	<0.033		0.033	0.0090	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Di-n-butyl phthalate	<0.17		0.17	0.050	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Fluoranthene	<0.033		0.033	0.0061	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1
Hexachloroethane	<0.17		0.17	0.050	mg/Kg	☼	05/09/22 13:23	05/10/22 18:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B02-2

Lab Sample ID: 500-215647-25

Date Collected: 04/25/22 15:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.0

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	<0.033		0.033	0.0086	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
Isophorone	<0.17		0.17	0.037	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
Phenol	<0.17		0.17	0.074	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
Pyrene	<0.033		0.033	0.0066	mg/Kg	✱	05/09/22 13:23	05/10/22 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143				05/09/22 13:23	05/10/22 18:01	1
2-Fluorobiphenyl	74		43 - 145				05/09/22 13:23	05/10/22 18:01	1
2-Fluorophenol	88		31 - 166				05/09/22 13:23	05/10/22 18:01	1
Nitrobenzene-d5 (Surr)	65		37 - 147				05/09/22 13:23	05/10/22 18:01	1
Phenol-d5	83		30 - 153				05/09/22 13:23	05/10/22 18:01	1
Terphenyl-d14 (Surr)	131		42 - 157				05/09/22 13:23	05/10/22 18:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Arsenic	3.7		0.51	0.17	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Barium	11		1.0	0.12	mg/Kg	✱	05/02/22 16:25	05/04/22 18:24	2
Beryllium	0.21		0.20	0.047	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Boron	3.9		2.5	0.24	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Cadmium	0.053	J B	0.10	0.018	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Calcium	110000		51	8.6	mg/Kg	✱	05/02/22 16:25	05/04/22 18:34	5
Chromium	6.8	B	1.0	0.50	mg/Kg	✱	05/02/22 16:25	05/04/22 18:24	2
Cobalt	3.1		0.25	0.066	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Copper	11		0.51	0.14	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Iron	8000		20	11	mg/Kg	✱	05/02/22 16:25	05/04/22 18:24	2
Lead	4.2		0.25	0.12	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Magnesium	50000		10	5.0	mg/Kg	✱	05/02/22 16:25	05/04/22 18:24	2
Manganese	290		0.51	0.073	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Nickel	7.8		0.51	0.15	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Potassium	390		25	9.0	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Selenium	<0.51		0.51	0.30	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Silver	<0.25		0.25	0.065	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Sodium	140		100	15	mg/Kg	✱	05/02/22 16:25	05/04/22 18:24	2
Thallium	<0.51		0.51	0.25	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Vanadium	7.8		0.25	0.060	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	1
Zinc	24		1.0	0.44	mg/Kg	✱	05/02/22 16:25	05/03/22 15:19	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		05/03/22 15:34	05/04/22 12:47	1
Barium	<0.50		0.50	0.050	mg/L		05/03/22 15:34	05/04/22 12:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/22 15:34	05/04/22 12:47	1
Boron	<0.10		0.10	0.050	mg/L		05/03/22 15:34	05/04/22 12:47	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

Client Sample ID: 2773V2-92-B02-2

Lab Sample ID: 500-215647-25

Date Collected: 04/25/22 15:00

Matrix: Solid

Date Received: 04/26/22 14:02

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/22 15:34	05/04/22 12:47	1
Calcium	6.6		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:47	1
Chromium	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:47	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:47	1
Iron	<0.40		0.40	0.20	mg/L		05/03/22 15:34	05/04/22 12:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/22 15:34	05/04/22 12:47	1
Manganese	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:47	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:47	1
Potassium	<2.5		2.5	0.50	mg/L		05/03/22 15:34	05/04/22 12:47	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/22 15:34	05/04/22 12:47	1
Silver	<0.025		0.025	0.010	mg/L		05/03/22 15:34	05/04/22 12:47	1
Zinc	<0.50		0.50	0.020	mg/L		05/03/22 15:34	05/04/22 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/03/22 15:34	05/04/22 21:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/22 15:34	05/04/22 21:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/03/22 11:55	05/04/22 12:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.016	0.0054	mg/Kg	⊛	05/03/22 13:40	05/04/22 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	⊛	05/06/22 11:08	05/06/22 14:16	1
pH	8.8		0.2	0.2	SU			04/29/22 14:16	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

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, low biased.
*3	ISTD response or retention time outside acceptable limits.
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, low biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215647-1

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 - AE7-059

Job ID: 500-215647-1


Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	 500-215647 COC	Laboratory Lab Test America - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Dick Wright email richard.wright@testamericainc.com	Project Name <u>A27-059A</u> Project No <u>PTB/No: 184-006/059A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>A. Buscaglia / S. Khodaei</u>	COC No <u>1</u> of <u>3</u> Lab Job No <u>500-215647</u> Sample Temp: <u>72°F</u> <u>31-21, 33-23</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

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

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2773V2-92-B15	4/25	0930	S	X	X					X	X	X	X	X		
2	2773V2-92-B15 DUP		0945														
3	2773V2-92-B14		1000														
4	2773V2-92-B13		1015														
5	2773V2-92-B12		1030														
6	2773V2-92-B11		1045														
7	2773V2-92-B03-1		1100														
8	2773V2-92-B03-2		1115														
9	2773V2-92-B16-1		1130														
10	2773V2-92-B16-2		1145														
11	2773V2-92-B17	↓	1200	↓	↓	↓					↓	↓	↓	↓	↓		

Relinquished by <u>[Signature]</u>	Date/Time <u>4/25 1640</u>	Received by <u>[Signature]</u>	Date/Time <u>4/25 1640</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/26 1307</u>	Received by <u>[Signature]</u>	Date/Time <u>4/26/22 1307</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/26/22 1402</u>	Received by <u>[Signature]</u>	Date/Time <u>4/26/22 1402</u>



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Laboratory Lab Test America - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Dick Wright email richard.wright@testamericainc.com	Project Name <u>A57-059A</u> Project No <u>PTB/WO: 184-006 / 059A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>Angelo Buscaglia / S. Khodaei</u>	COC No <u>2</u> of <u>3</u> Lab Job No <u>500-215047</u> Sample Temp
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Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter
*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

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

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
12/13	2773V2-92-B04-1	4/25	1215	S	X	X					X	X	X	X	X		
13/14	2773V2-92-B04-2		1230														
14/15	2773V2-92-B10		1245														
15/16	2773V2-92-B09		1300														
16/17	2773V2-92-B20		1315														
17/18	2773V2-92-B21		1330														
18/19	2773V2-92-B22		1345														
19/20	2773V2-92-B23		1400														
20/21	2773V2-92-B05		1415														
21/22	2773V2-92-B18		1430														
22/23	2773V2-92-B06	↓	1440	↓	↓	↓					↓	↓	↓	↓	↓		

Relinquished by <u>Amika</u>	Date/Time <u>4/25 1340</u>	Received by <u>Amika</u>	Date/Time <u>4/25 1640</u>
Relinquished by <u>Amika</u>	Date/Time <u>4/26 1307</u>	Received by <u>Amika</u>	Date/Time <u>4/26/22 1307</u>
Relinquished by <u>P. New</u>	Date/Time <u>4/26/22 1402</u>	Received by <u>Amika</u>	Date/Time <u>4/26/22 1402</u>

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name <u>A27-059A</u>	COC No <u>3</u> of <u>3</u>
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab <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@testamericainc.com</u>	Project No <u>PTB/NO: 184-006/059A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No <u>500-215647</u>
Special Instructions:		Analyses	

See Table 2 for complete parameter lists and minimum reporting limits

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal

** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter

*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
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- 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
23	2773V2-92-B06 DUP	4/25	1445	S	X	X					X	X	X	X	X					
24	2773V2-92-B02-1	4/25	1455	S	X	X					X	X	X	X	X					
25	2773V2-92-B02-2	4/25	1500	S	X	X					X	X	X	X	X					
26	2773V2-92-B19-1	4/25	1510	S	X	X					X	X	X	X	X					
27	2773V2-92-B19-2	4/25	1515	S	X	X					X	X	X	X	X					
28	Trip Blank #1				X															

Relinquished by <u>[Signature]</u>	Date/Time <u>4/25 1640</u>	Received by <u>[Signature]</u>	Date/Time <u>4/25 1640</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/26 1307</u>	Received by <u>[Signature]</u>	Date/Time <u>4/26/22 1307</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/26/22 1402</u>	Received by <u>[Signature]</u>	Date/Time <u>4/26/22 1402</u>



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 3887 (IL 31) Office Phone Number, if available: _____

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

595 South State Street (southeast corner of US 20 and State Street)

City: Elgin State: IL Zip Code: 60123

County: Kane Township: Elgin

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

Latitude: 42.02045 Longitude: - 88.28349

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 0894385079

IEPA Site Number(s), if assigned: BOL: 0894385109 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 1,806

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 2773V2-93-B01, 2773V2-93-B02, 2773V2-93-B03, 2773V2-93-B04, 2773V2-93-B05, 2773V2-93-B06, 2773V2-93-B07 AND 2773V2-93-B08 WERE SAMPLED ADJACENT TO SITE 2773V2-93. SEE TABLE 3f AND FIGURES 2, 3 AND 6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-215774-1.

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))

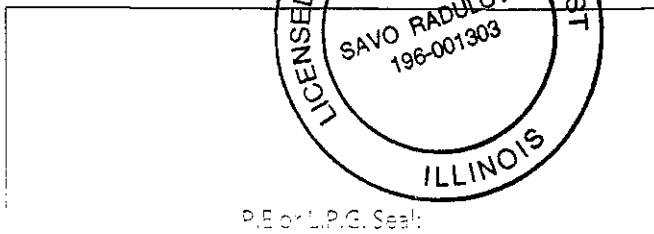
Company Name: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 28, 2022
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 2773V2-93
 State of Illinois Buildings

Sample ID	2773V2-93-B01	2773V2-93-B02	2773V2-93-B03	2773V2-93-B04-1	2773V2-93-B04-1 DUP	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	0-7	0-7	0-6.5	0-6.5	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	4/27/2022	4/27/2022	4/27/2022	4/26/2022	4/26/2022					
PID	0	0	0	0	0					
Sample pH	8	8.4	7.2	8.7	8.6					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	2773V2-93-B04-2	2773V2-93-B05	2773V2-93-B06	2773V2-93-B07	2773V2-93-B08	Maximum Allowable Concentration				
Sample Depth (ft)	6.5-13	0-7	0-7	0-6.5	0-6	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	4/26/2022	4/27/2022	4/27/2022	4/27/2022	4/27/2022					
PID	0	0	0	0	0					
Sample pH	8.5	7.4	8.3	8.1	7.5					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215694-1
Client Project/Site: IDOT - AE7-059

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
5/11/2022 3:52:57 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@et.eurofinsus.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 - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-1

Lab Sample ID: 500-215694-1

Date Collected: 04/26/22 09:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Acetone	0.012	J	0.020	0.0089	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	✳	04/27/22 17:58	05/02/22 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	04/27/22 17:58	05/02/22 19:01	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/27/22 17:58	05/02/22 19:01	1
Dibromofluoromethane	111		75 - 126	04/27/22 17:58	05/02/22 19:01	1
Toluene-d8 (Surr)	115		75 - 124	04/27/22 17:58	05/02/22 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	✳	05/08/22 08:54	05/09/22 20:07	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	✳	05/08/22 08:54	05/09/22 20:07	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	✳	05/08/22 08:54	05/09/22 20:07	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	✳	05/08/22 08:54	05/09/22 20:07	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	✳	05/08/22 08:54	05/09/22 20:07	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-1

Lab Sample ID: 500-215694-1

Date Collected: 04/26/22 09:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.33		0.33	0.077	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2,4,6-Trichlorophenol	<0.33		0.33	0.12	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2,4-Dichlorophenol	<0.33		0.33	0.080	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2,4-Dinitrophenol	<0.68		0.68	0.59	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2-Methylnaphthalene	<0.068		0.068	0.0062	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
2-Nitrophenol	<0.33		0.33	0.080	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
3,3'-Dichlorobenzidine	<0.17	*3	0.17	0.047	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Acenaphthene	<0.033		0.033	0.0061	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Anthracene	<0.033		0.033	0.0056	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Benzo[a]anthracene	<0.033	*3	0.033	0.0045	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Benzo[a]pyrene	<0.033	*3	0.033	0.0065	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Benzo[b]fluoranthene	<0.033	*3	0.033	0.0073	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Benzo[g,h,i]perylene	<0.033	*3	0.033	0.011	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Benzo[k]fluoranthene	<0.033	*3	0.033	0.0099	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Bis(2-ethylhexyl) phthalate	<0.17	*3	0.17	0.062	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Butyl benzyl phthalate	<0.17	*3	0.17	0.064	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Carbazole	<0.17		0.17	0.084	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Chrysene	<0.033	*3	0.033	0.0092	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Dibenz(a,h)anthracene	<0.033	*3	0.033	0.0065	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	05/08/22 08:54	05/09/22 20:07	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-1

Lab Sample ID: 500-215694-1

Date Collected: 04/26/22 09:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.0

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	<0.033	*3	0.033	0.0087	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
Naphthalene	<0.033		0.033	0.0052	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
Nitrobenzene	<0.033		0.033	0.0084	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
N-Nitrosodi-n-propylamine	<0.068		0.068	0.041	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
Phenanthrene	<0.033		0.033	0.0047	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
Phenol	<0.17		0.17	0.075	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
Pyrene	<0.033	*3	0.033	0.0067	mg/Kg	☆	05/08/22 08:54	05/09/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		31 - 143				05/08/22 08:54	05/09/22 20:07	1
2-Fluorobiphenyl	89		43 - 145				05/08/22 08:54	05/09/22 20:07	1
2-Fluorophenol	100		31 - 166				05/08/22 08:54	05/09/22 20:07	1
Nitrobenzene-d5 (Surr)	69		37 - 147				05/08/22 08:54	05/09/22 20:07	1
Phenol-d5	84		30 - 153				05/08/22 08:54	05/09/22 20:07	1
Terphenyl-d14 (Surr)	212	S1+ *3	42 - 157				05/08/22 08:54	05/09/22 20:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Arsenic	2.9		0.51	0.17	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Barium	15		2.5	0.29	mg/Kg	☆	05/04/22 09:00	05/06/22 23:16	5
Beryllium	0.21		0.20	0.047	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Boron	4.8		2.5	0.24	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Cadmium	0.055	J B	0.10	0.018	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Calcium	150000	B	100	17	mg/Kg	☆	05/04/22 09:00	05/09/22 11:25	10
Chromium	5.9	B	0.51	0.25	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Cobalt	3.0		0.25	0.066	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Copper	10	B	0.51	0.14	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Iron	9400	B	51	26	mg/Kg	☆	05/04/22 09:00	05/06/22 23:16	5
Lead	6.7		0.25	0.12	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Magnesium	81000	B	25	13	mg/Kg	☆	05/04/22 09:00	05/06/22 23:16	5
Manganese	340	B	0.51	0.073	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Nickel	7.0		0.51	0.15	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Potassium	380		25	8.9	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Selenium	<0.51		0.51	0.30	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Silver	<0.25		0.25	0.065	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Sodium	160		51	7.5	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Thallium	<0.51		0.51	0.25	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Vanadium	8.7		0.25	0.060	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	1
Zinc	23		1.0	0.44	mg/Kg	☆	05/04/22 09:00	05/04/22 20:15	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		05/04/22 16:45	05/05/22 13:52	1
Barium	<0.50		0.50	0.050	mg/L		05/04/22 16:45	05/05/22 13:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 13:52	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 13:52	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-1

Lab Sample ID: 500-215694-1

Date Collected: 04/26/22 09:50

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 13:52	1
Calcium	6.8		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:52	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:52	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:52	1
Iron	<0.40		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 13:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 13:52	1
Manganese	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:52	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:52	1
Potassium	<2.5		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:52	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 13:52	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:52	1
Zinc	<0.50		0.50	0.020	mg/L		05/04/22 16:45	05/05/22 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 15:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 15:12	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		05/05/22 11:20	05/06/22 11:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0055	mg/Kg	⊛	05/05/22 15:55	05/06/22 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24	*-	0.24	0.12	mg/Kg	⊛	05/10/22 11:45	05/10/22 16:07	1
pH	8.7		0.2	0.2	SU			05/02/22 15:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-1 Dup

Lab Sample ID: 500-215694-2

Date Collected: 04/26/22 10:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00075	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00096	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
1,1-Dichloroethane	<0.0022		0.0022	0.00077	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
1,1-Dichloroethene	<0.0022		0.0022	0.00077	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
1,2-Dichloroethane	<0.0056		0.0056	0.0017	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
1,2-Dichloropropane	<0.0022		0.0022	0.00058	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00078	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0017	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Acetone	<0.022		0.022	0.0097	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Carbon tetrachloride	<0.0022		0.0022	0.00065	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Chloroethane	<0.0056		0.0056	0.0017	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Chloroform	<0.0022		0.0022	0.00078	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Chloromethane	<0.0056		0.0056	0.0022	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Dibromochloromethane	<0.0022		0.0022	0.00073	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00066	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Tetrachloroethene	<0.0022		0.0022	0.00076	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00099	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Trichloroethene	<0.0022		0.0022	0.00076	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Vinyl chloride	<0.0022		0.0022	0.00099	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	✳	04/27/22 17:58	05/02/22 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	04/27/22 17:58	05/02/22 19:26	1
4-Bromofluorobenzene (Surr)	84		75 - 131	04/27/22 17:58	05/02/22 19:26	1
Dibromofluoromethane	111		75 - 126	04/27/22 17:58	05/02/22 19:26	1
Toluene-d8 (Surr)	127	S1+	75 - 124	04/27/22 17:58	05/02/22 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	✳	05/08/22 08:54	05/09/22 20:29	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	✳	05/08/22 08:54	05/09/22 20:29	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	✳	05/08/22 08:54	05/09/22 20:29	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	✳	05/08/22 08:54	05/09/22 20:29	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	✳	05/08/22 08:54	05/09/22 20:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-1 Dup

Lab Sample ID: 500-215694-2

Date Collected: 04/26/22 10:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
3,3'-Dichlorobenzidine	<0.17	*3	0.17	0.047	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Anthracene	<0.033		0.033	0.0056	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Benzo[a]anthracene	<0.033	*3	0.033	0.0045	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Benzo[a]pyrene	<0.033	*3	0.033	0.0065	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Benzo[b]fluoranthene	<0.033	*3	0.033	0.0072	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Benzo[g,h,i]perylene	<0.033	*3	0.033	0.011	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Benzo[k]fluoranthene	<0.033	*3	0.033	0.0098	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Bis(2-ethylhexyl) phthalate	<0.17	*3	0.17	0.061	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Butyl benzyl phthalate	<0.17	*3	0.17	0.064	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Carbazole	<0.17		0.17	0.083	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Chrysene	<0.033	*3	0.033	0.0091	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Dibenz(a,h)anthracene	<0.033	*3	0.033	0.0065	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Fluoranthene	0.0094	J	0.033	0.0062	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	05/08/22 08:54	05/09/22 20:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-1 Dup

Lab Sample ID: 500-215694-2

Date Collected: 04/26/22 10:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.033	*3	0.033	0.0087	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
Pentachlorophenol	<0.67		0.67	0.54	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
Phenanthrene	<0.033		0.033	0.0047	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
Phenol	<0.17		0.17	0.074	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1
Pyrene	0.0095	J *3	0.033	0.0066	mg/Kg	☆	05/08/22 08:54	05/09/22 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		31 - 143	05/08/22 08:54	05/09/22 20:29	1
2-Fluorobiphenyl	82		43 - 145	05/08/22 08:54	05/09/22 20:29	1
2-Fluorophenol	100		31 - 166	05/08/22 08:54	05/09/22 20:29	1
Nitrobenzene-d5 (Surr)	67		37 - 147	05/08/22 08:54	05/09/22 20:29	1
Phenol-d5	102		30 - 153	05/08/22 08:54	05/09/22 20:29	1
Terphenyl-d14 (Surr)	214	S1+ *3	42 - 157	05/08/22 08:54	05/09/22 20:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.19	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Arsenic	2.7		0.49	0.17	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Barium	19		2.4	0.28	mg/Kg	☆	05/04/22 09:00	05/06/22 23:23	5
Beryllium	0.20		0.20	0.046	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Boron	4.8		2.4	0.23	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Cadmium	0.047	J B	0.098	0.018	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Calcium	150000	B	49	8.3	mg/Kg	☆	05/04/22 09:00	05/06/22 23:23	5
Chromium	4.9	B	0.49	0.24	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Cobalt	2.9		0.24	0.064	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Copper	11	B	0.49	0.14	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Iron	9700	B	49	25	mg/Kg	☆	05/04/22 09:00	05/06/22 23:23	5
Lead	3.1		0.24	0.11	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Magnesium	73000	B	24	12	mg/Kg	☆	05/04/22 09:00	05/06/22 23:23	5
Manganese	310	B	0.49	0.071	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Nickel	7.5		0.49	0.14	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Potassium	530		24	8.7	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Selenium	<0.49		0.49	0.29	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Silver	<0.24		0.24	0.063	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Sodium	210		49	7.2	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Thallium	<0.49		0.49	0.24	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Vanadium	8.2		0.24	0.058	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	1
Zinc	26		0.98	0.43	mg/Kg	☆	05/04/22 09:00	05/04/22 20:18	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		05/04/22 16:45	05/05/22 13:55	1
Barium	<0.50		0.50	0.050	mg/L		05/04/22 16:45	05/05/22 13:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 13:55	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 13:55	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-1 Dup

Lab Sample ID: 500-215694-2

Date Collected: 04/26/22 10:00

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 13:55	1
Calcium	6.9		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:55	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:55	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:55	1
Iron	0.45		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 13:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 13:55	1
Manganese	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:55	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:55	1
Potassium	<2.5		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:55	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 13:55	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:55	1
Zinc	0.027	J	0.50	0.020	mg/L		05/04/22 16:45	05/05/22 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 15:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 15:15	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		05/05/22 11:20	05/06/22 11:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg	⊛	05/05/22 15:55	05/06/22 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*-	0.25	0.12	mg/Kg	⊛	05/10/22 11:45	05/10/22 16:13	1
pH	8.6		0.2	0.2	SU			05/02/22 15:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-2

Lab Sample ID: 500-215694-3

Date Collected: 04/26/22 10:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00069	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
1,1-Dichloroethene	<0.0021		0.0021	0.00074	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
2-Hexanone	0.0023	J	0.0054	0.0017	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Acetone	<0.021		0.021	0.0093	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Bromoform	<0.0021		0.0021	0.00063	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Chloromethane	<0.0054	*	0.0054	0.0022	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00065	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Toluene	0.00057	J	0.0021	0.00054	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	✳	04/27/22 17:58	05/03/22 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	04/27/22 17:58	05/03/22 15:02	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/27/22 17:58	05/03/22 15:02	1
Dibromofluoromethane	109		75 - 126	04/27/22 17:58	05/03/22 15:02	1
Toluene-d8 (Surr)	93		75 - 124	04/27/22 17:58	05/03/22 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	✳	05/08/22 08:54	05/09/22 20:50	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	✳	05/08/22 08:54	05/09/22 20:50	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	✳	05/08/22 08:54	05/09/22 20:50	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	✳	05/08/22 08:54	05/09/22 20:50	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	✳	05/08/22 08:54	05/09/22 20:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-2

Lab Sample ID: 500-215694-3

Date Collected: 04/26/22 10:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
3,3'-Dichlorobenzidine	<0.17	*3	0.17	0.047	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Anthracene	<0.033		0.033	0.0056	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Benzo[a]anthracene	<0.033	*3	0.033	0.0045	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Benzo[a]pyrene	<0.033	*3	0.033	0.0065	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Benzo[b]fluoranthene	<0.033	*3	0.033	0.0072	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Benzo[g,h,i]perylene	<0.033	*3	0.033	0.011	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Benzo[k]fluoranthene	<0.033	*3	0.033	0.0098	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Bis(2-ethylhexyl) phthalate	<0.17	*3	0.17	0.061	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Butyl benzyl phthalate	<0.17	*3	0.17	0.064	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Carbazole	<0.17		0.17	0.083	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Chrysene	<0.033	*3	0.033	0.0091	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Dibenz(a,h)anthracene	<0.033	*3	0.033	0.0065	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	05/08/22 08:54	05/09/22 20:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-2

Lab Sample ID: 500-215694-3

Date Collected: 04/26/22 10:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 94.7

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	<0.033	*3	0.033	0.0087	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
Pentachlorophenol	<0.67		0.67	0.54	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
Phenanthrene	<0.033		0.033	0.0047	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
Phenol	<0.17		0.17	0.074	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1
Pyrene	<0.033	*3	0.033	0.0066	mg/Kg	☆	05/08/22 08:54	05/09/22 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		31 - 143	05/08/22 08:54	05/09/22 20:50	1
2-Fluorobiphenyl	78		43 - 145	05/08/22 08:54	05/09/22 20:50	1
2-Fluorophenol	97		31 - 166	05/08/22 08:54	05/09/22 20:50	1
Nitrobenzene-d5 (Surr)	64		37 - 147	05/08/22 08:54	05/09/22 20:50	1
Phenol-d5	50		30 - 153	05/08/22 08:54	05/09/22 20:50	1
Terphenyl-d14 (Surr)	204	S1+ *3	42 - 157	05/08/22 08:54	05/09/22 20:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.19	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Arsenic	2.8		0.48	0.17	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Barium	19		2.4	0.28	mg/Kg	☆	05/04/22 09:00	05/06/22 23:29	5
Beryllium	0.22		0.19	0.045	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Boron	5.7		2.4	0.22	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Cadmium	0.056	J B	0.097	0.017	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Calcium	150000	B	97	16	mg/Kg	☆	05/04/22 09:00	05/09/22 11:40	10
Chromium	6.4	B	0.48	0.24	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Cobalt	3.6		0.24	0.063	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Copper	13	B	0.48	0.14	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Iron	9700	B	48	25	mg/Kg	☆	05/04/22 09:00	05/06/22 23:29	5
Lead	6.1		0.24	0.11	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Magnesium	85000	B	24	12	mg/Kg	☆	05/04/22 09:00	05/06/22 23:29	5
Manganese	330	B	0.48	0.070	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Nickel	7.7		0.48	0.14	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Potassium	550		24	8.5	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Selenium	<0.48		0.48	0.28	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Silver	0.071	J	0.24	0.062	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Sodium	180		48	7.1	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Thallium	<0.48		0.48	0.24	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Vanadium	10		0.24	0.057	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	1
Zinc	25		0.97	0.42	mg/Kg	☆	05/04/22 09:00	05/04/22 20:21	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		05/04/22 16:45	05/05/22 13:58	1
Barium	<0.50		0.50	0.050	mg/L		05/04/22 16:45	05/05/22 13:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/22 16:45	05/05/22 13:58	1
Boron	<0.10		0.10	0.050	mg/L		05/04/22 16:45	05/05/22 13:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Client Sample ID: 2773V2-93-B04-2

Lab Sample ID: 500-215694-3

Date Collected: 04/26/22 10:10

Matrix: Solid

Date Received: 04/27/22 11:55

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/04/22 16:45	05/05/22 13:58	1
Calcium	8.9		2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:58	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:58	1
Cobalt	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:58	1
Iron	1.5		0.40	0.20	mg/L		05/04/22 16:45	05/05/22 13:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/22 16:45	05/05/22 13:58	1
Manganese	0.023	J	0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:58	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:58	1
Potassium	0.60	J	2.5	0.50	mg/L		05/04/22 16:45	05/05/22 13:58	1
Selenium	<0.050		0.050	0.020	mg/L		05/04/22 16:45	05/05/22 13:58	1
Silver	<0.025		0.025	0.010	mg/L		05/04/22 16:45	05/05/22 13:58	1
Zinc	<0.50		0.50	0.020	mg/L		05/04/22 16:45	05/05/22 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/22 16:45	05/06/22 15:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/22 16:45	05/06/22 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/05/22 11:20	05/06/22 11:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0055	mg/Kg	☼	05/05/22 15:55	05/06/22 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	*-	0.25	0.13	mg/Kg	☼	05/10/22 11:45	05/10/22 16:14	1
pH	8.5		0.2	0.2	SU			05/02/22 15:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215694-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*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.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

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 - AE7-059

Job ID: 500-215694-1


Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, I 3300 Ginger Creek Driv Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	 500-215694 COC	Laboratory Lab Test America - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Dick Wright email richard.wright@testamericainc.com	Project Name <u>AET-059A</u> Project No <u>PTB/WO: 184-006/059A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>A. Buscaglia / S. Rhodari</u>	COC No <u>1</u> of <u>1</u>
				Lab Job No <u>500-215694</u>
				Sample Temp <u>23.763</u>

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

										ANALYSES										
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				
1	2773V2-93-B04-1	4/26	0950	S	X	X					X	X	X	X	X					
2	2773V2-93-B04-1 DUP	4/26	1000	S	X	X					X	X	X	X	X					
3	2773V2-93-B04-2	4/26	1010	S	X	X					X	X	X	X	X					

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

Relinquished by <i>[Signature]</i>	Date/Time <u>4/26 1530</u>	Received by <i>[Signature]</i>	Date/Time <u>4/26 1530</u>
Relinquished by <i>[Signature]</i>	Date/Time <u>4/27 9:05AM</u>	Received by <i>[Signature]</i>	Date/Time <u>4/27/22 0905</u>
Relinquished by <i>[Signature]</i>	Date/Time <u>4/27</u>	Received by <i>[Signature]</i>	Date/Time <u>4/27/22 1155</u>

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215774-1
Client Project/Site: IDOT - AE7-059

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
5/16/2022 11:23:34 AM

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B03

Lab Sample ID: 500-215774-1

Date Collected: 04/27/22 10:30

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Acetone	<0.020	*1	0.020	0.0088	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Carbon tetrachloride	<0.0020	*+	0.0020	0.00058	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Dibromochloromethane	<0.0020	*+	0.0020	0.00066	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Tetrachloroethene	<0.0020	*+	0.0020	0.00069	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	✱	04/28/22 18:22	05/05/22 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/28/22 18:22	05/05/22 18:59	1
4-Bromofluorobenzene (Surr)	82		75 - 131	04/28/22 18:22	05/05/22 18:59	1
Dibromofluoromethane	124		75 - 126	04/28/22 18:22	05/05/22 18:59	1
Toluene-d8 (Surr)	126	S1+	75 - 124	04/28/22 18:22	05/05/22 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	05/10/22 08:04	05/11/22 18:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	✱	05/10/22 08:04	05/11/22 18:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	✱	05/10/22 08:04	05/11/22 18:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	✱	05/10/22 08:04	05/11/22 18:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	✱	05/10/22 08:04	05/11/22 18:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B03

Lab Sample ID: 500-215774-1

Date Collected: 04/27/22 10:30

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.4

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	☼	05/10/22 08:04	05/11/22 18:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Fluoranthene	<0.040		0.040	0.0076	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	05/10/22 08:04	05/11/22 18:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B03

Lab Sample ID: 500-215774-1

Date Collected: 04/27/22 10:30

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
Isophorone	<0.20		0.20	0.046	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
Phenol	<0.20		0.20	0.091	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	✳	05/10/22 08:04	05/11/22 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		31 - 143	05/10/22 08:04	05/11/22 18:53	1
2-Fluorobiphenyl	48		43 - 145	05/10/22 08:04	05/11/22 18:53	1
2-Fluorophenol	81		31 - 166	05/10/22 08:04	05/11/22 18:53	1
Nitrobenzene-d5 (Surr)	49		37 - 147	05/10/22 08:04	05/11/22 18:53	1
Phenol-d5	71		30 - 153	05/10/22 08:04	05/11/22 18:53	1
Terphenyl-d14 (Surr)	120		42 - 157	05/10/22 08:04	05/11/22 18:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.2	0.23	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Arsenic	6.7		0.59	0.20	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Barium	120		0.59	0.067	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Beryllium	0.79		0.24	0.055	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Boron	2.9	J	3.0	0.28	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Calcium	4100		12	2.0	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Chromium	18	B	0.59	0.29	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Cobalt	11		0.30	0.078	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Copper	13	B	0.59	0.17	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Iron	17000	B	12	6.2	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Lead	13		0.30	0.14	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Magnesium	3400		5.9	2.9	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Manganese	610	B	0.59	0.086	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Nickel	19		0.59	0.17	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Potassium	1100		30	10	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Selenium	0.44	J	0.59	0.35	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Silver	0.35		0.30	0.076	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Sodium	150		59	8.8	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Thallium	0.33	J	0.59	0.30	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Vanadium	33		0.30	0.070	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1
Zinc	53		1.2	0.52	mg/Kg	✳	05/05/22 09:38	05/05/22 17:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.36	J	0.40	0.20	mg/L		05/05/22 15:23	05/06/22 13:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/05/22 15:23	05/06/22 13:42	1
Manganese	0.034		0.025	0.010	mg/L		05/05/22 15:23	05/06/22 13:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B03

Lab Sample ID: 500-215774-1

Date Collected: 04/27/22 10:30

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018	J	0.050	0.010	mg/L		05/05/22 15:27	05/06/22 13:21	1
Barium	0.49	J	0.50	0.050	mg/L		05/05/22 15:27	05/06/22 13:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/22 15:27	05/06/22 13:21	1
Boron	<0.10		0.10	0.050	mg/L		05/05/22 15:27	05/06/22 13:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/22 15:27	05/06/22 13:21	1
Calcium	16		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:21	1
Chromium	0.081		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:21	1
Cobalt	0.018	J	0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:21	1
Iron	74		0.40	0.20	mg/L		05/05/22 15:27	05/06/22 13:21	1
Lead	0.028		0.0075	0.0075	mg/L		05/05/22 15:27	05/06/22 13:21	1
Manganese	1.3		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:21	1
Nickel	0.062		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:21	1
Potassium	7.2		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:21	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/22 15:27	05/06/22 13:21	1
Silver	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:21	1
Zinc	0.22	J ^+	0.50	0.020	mg/L		05/05/22 15:27	05/06/22 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/05/22 15:27	05/06/22 18:20	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		05/05/22 15:27	05/06/22 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/09/22 11:05	05/10/22 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.021	0.0069	mg/Kg	⊛	05/09/22 14:40	05/10/22 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.30	J	0.31	0.15	mg/Kg	⊛	05/11/22 13:12	05/11/22 16:11	1
pH	7.2		0.2	0.2	SU			05/03/22 21:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B02

Lab Sample ID: 500-215774-2

Date Collected: 04/27/22 10:40

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Acetone	<0.017	*1	0.017	0.0074	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Carbon tetrachloride	<0.0017	*+	0.0017	0.00049	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Dibromochloromethane	<0.0017	*+	0.0017	0.00056	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Tetrachloroethene	<0.0017	*+	0.0017	0.00058	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	04/28/22 18:22	05/05/22 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	04/28/22 18:22	05/05/22 19:23	1
4-Bromofluorobenzene (Surr)	89		75 - 131	04/28/22 18:22	05/05/22 19:23	1
Dibromofluoromethane	120		75 - 126	04/28/22 18:22	05/05/22 19:23	1
Toluene-d8 (Surr)	130	S1+	75 - 124	04/28/22 18:22	05/05/22 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B02

Lab Sample ID: 500-215774-2

Date Collected: 04/27/22 10:40

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.079	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.068	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2-Chloronaphthalene	<0.18		0.18	0.038	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2-Chlorophenol	<0.18		0.18	0.059	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Benzo[a]pyrene	<0.035		0.035	0.0067	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0067	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 19:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B02

Lab Sample ID: 500-215774-2

Date Collected: 04/27/22 10:40

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 93.8

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	<0.035		0.035	0.0090	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
Isophorone	<0.18		0.18	0.039	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.043	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
Phenol	<0.18		0.18	0.077	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	✱	05/10/22 08:04	05/11/22 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		31 - 143	05/10/22 08:04	05/11/22 19:15	1
2-Fluorobiphenyl	68		43 - 145	05/10/22 08:04	05/11/22 19:15	1
2-Fluorophenol	81		31 - 166	05/10/22 08:04	05/11/22 19:15	1
Nitrobenzene-d5 (Surr)	59		37 - 147	05/10/22 08:04	05/11/22 19:15	1
Phenol-d5	78		30 - 153	05/10/22 08:04	05/11/22 19:15	1
Terphenyl-d14 (Surr)	129		42 - 157	05/10/22 08:04	05/11/22 19:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.19	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Arsenic	3.7		0.50	0.17	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Barium	9.9		1.0	0.11	mg/Kg	✱	05/05/22 09:38	05/06/22 22:55	2
Beryllium	0.24		0.20	0.047	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Boron	5.5		2.5	0.23	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Cadmium	0.096	J B	0.10	0.018	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Calcium	120000		50	8.5	mg/Kg	✱	05/05/22 09:38	05/06/22 22:58	5
Chromium	5.4	B	0.50	0.25	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Cobalt	3.8		0.25	0.065	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Copper	11	B	0.50	0.14	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Iron	9200	B	20	10	mg/Kg	✱	05/05/22 09:38	05/06/22 22:55	2
Lead	6.6		0.25	0.12	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Magnesium	57000		10	5.0	mg/Kg	✱	05/05/22 09:38	05/06/22 22:55	2
Manganese	240	B	0.50	0.072	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Nickel	8.6		0.50	0.15	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Potassium	610		25	8.8	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Selenium	<0.50		0.50	0.29	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Silver	<0.25		0.25	0.064	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Sodium	150		50	7.4	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Thallium	<0.50		0.50	0.25	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Vanadium	9.8		0.25	0.059	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	1
Zinc	31		1.0	0.44	mg/Kg	✱	05/05/22 09:38	05/05/22 17:36	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		05/05/22 15:27	05/06/22 13:24	1
Barium	<0.50		0.50	0.050	mg/L		05/05/22 15:27	05/06/22 13:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/22 15:27	05/06/22 13:24	1
Boron	0.053	J	0.10	0.050	mg/L		05/05/22 15:27	05/06/22 13:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B02

Lab Sample ID: 500-215774-2

Date Collected: 04/27/22 10:40

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/22 15:27	05/06/22 13:24	1
Calcium	7.3		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:24	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:24	1
Cobalt	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:24	1
Iron	2.4		0.40	0.20	mg/L		05/05/22 15:27	05/06/22 13:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/05/22 15:27	05/06/22 13:24	1
Manganese	0.024	J	0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:24	1
Nickel	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:24	1
Potassium	1.3	J	2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:24	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/22 15:27	05/06/22 13:24	1
Silver	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:24	1
Zinc	0.024	J ^+	0.50	0.020	mg/L		05/05/22 15:27	05/06/22 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/05/22 15:27	05/06/22 18:24	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		05/05/22 15:27	05/06/22 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/09/22 11:05	05/10/22 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0055	mg/Kg	☼	05/09/22 14:40	05/10/22 07:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.12	J	0.24	0.12	mg/Kg	☼	05/11/22 13:12	05/11/22 16:12	1
pH	8.4		0.2	0.2	SU			05/03/22 21:48	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B01

Lab Sample ID: 500-215774-3

Date Collected: 04/27/22 10:50

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Acetone	<0.017	*1	0.017	0.0076	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Carbon tetrachloride	<0.0017	*+	0.0017	0.00050	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Dibromochloromethane	<0.0017	*+	0.0017	0.00057	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Tetrachloroethene	<0.0017	*+	0.0017	0.00059	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✳	04/28/22 18:22	05/05/22 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/28/22 18:22	05/05/22 19:48	1
4-Bromofluorobenzene (Surr)	84		75 - 131	04/28/22 18:22	05/05/22 19:48	1
Dibromofluoromethane	124		75 - 126	04/28/22 18:22	05/05/22 19:48	1
Toluene-d8 (Surr)	130	S1+	75 - 124	04/28/22 18:22	05/05/22 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	<0.17		0.17	0.037	mg/Kg	✳	05/10/22 08:04	05/11/22 19:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.042	mg/Kg	✳	05/10/22 08:04	05/11/22 19:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	✳	05/10/22 08:04	05/11/22 19:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.045	mg/Kg	✳	05/10/22 08:04	05/11/22 19:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 19:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B01

Lab Sample ID: 500-215774-3

Date Collected: 04/27/22 10:50

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.079	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2,4-Dichlorophenol	<0.35		0.35	0.082	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2-Methylphenol	<0.17		0.17	0.056	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.049	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.041	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Acenaphthene	<0.035		0.035	0.0062	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Benzo[a]pyrene	<0.035		0.035	0.0067	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Carbazole	<0.17		0.17	0.087	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Chrysene	<0.035		0.035	0.0095	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0067	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Di-n-octyl phthalate	<0.17		0.17	0.057	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Fluoranthene	0.0088	J	0.035	0.0064	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Hexachlorobutadiene	<0.17		0.17	0.055	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	☆	05/10/22 08:04	05/11/22 19:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B01

Lab Sample ID: 500-215774-3

Date Collected: 04/27/22 10:50

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 91.6

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	<0.035		0.035	0.0090	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
Isophorone	<0.17		0.17	0.039	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
Naphthalene	<0.035		0.035	0.0053	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.042	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
Phenanthrene	<0.035		0.035	0.0048	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
Phenol	<0.17		0.17	0.077	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	✱	05/10/22 08:04	05/11/22 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		31 - 143				05/10/22 08:04	05/11/22 19:38	1
2-Fluorobiphenyl	56		43 - 145				05/10/22 08:04	05/11/22 19:38	1
2-Fluorophenol	77		31 - 166				05/10/22 08:04	05/11/22 19:38	1
Nitrobenzene-d5 (Surr)	51		37 - 147				05/10/22 08:04	05/11/22 19:38	1
Phenol-d5	79		30 - 153				05/10/22 08:04	05/11/22 19:38	1
Terphenyl-d14 (Surr)	125		42 - 157				05/10/22 08:04	05/11/22 19:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.21	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Arsenic	8.1		0.53	0.18	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Barium	38		1.1	0.12	mg/Kg	✱	05/05/22 09:38	05/06/22 23:02	2
Beryllium	0.36		0.21	0.050	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Boron	4.3		2.7	0.25	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Cadmium	0.066	J B	0.11	0.019	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Calcium	100000		53	9.0	mg/Kg	✱	05/05/22 09:38	05/06/22 23:05	5
Chromium	7.7	B	0.53	0.26	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Cobalt	5.1		0.27	0.070	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Copper	18	B	0.53	0.15	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Iron	16000	B	21	11	mg/Kg	✱	05/05/22 09:38	05/06/22 23:02	2
Lead	11		0.27	0.12	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Magnesium	52000		11	5.3	mg/Kg	✱	05/05/22 09:38	05/06/22 23:02	2
Manganese	320	B	0.53	0.077	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Nickel	14		0.53	0.16	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Potassium	600		27	9.4	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Selenium	<0.53		0.53	0.31	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Silver	0.13	J	0.27	0.069	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Sodium	160		53	7.9	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Thallium	<0.53		0.53	0.27	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Vanadium	20		0.27	0.063	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1
Zinc	36		1.1	0.47	mg/Kg	✱	05/05/22 09:38	05/05/22 17:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		05/05/22 15:23	05/06/22 14:05	1
Manganese	0.78		0.025	0.010	mg/L		05/05/22 15:23	05/06/22 14:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B01

Lab Sample ID: 500-215774-3

Date Collected: 04/27/22 10:50

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/22 15:27	05/06/22 13:27	1
Barium	0.073	J	0.50	0.050	mg/L		05/05/22 15:27	05/06/22 13:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/22 15:27	05/06/22 13:27	1
Boron	<0.10		0.10	0.050	mg/L		05/05/22 15:27	05/06/22 13:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/22 15:27	05/06/22 13:27	1
Calcium	10		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:27	1
Chromium	0.015	J	0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:27	1
Cobalt	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:27	1
Iron	14		0.40	0.20	mg/L		05/05/22 15:27	05/06/22 13:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/05/22 15:27	05/06/22 13:27	1
Manganese	0.16		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:27	1
Nickel	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:27	1
Potassium	3.1		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:27	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/22 15:27	05/06/22 13:27	1
Silver	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:27	1
Zinc	0.056	J ^+	0.50	0.020	mg/L		05/05/22 15:27	05/06/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/05/22 15:27	05/06/22 18:27	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		05/05/22 15:27	05/06/22 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/09/22 11:05	05/10/22 10:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0057	mg/Kg	⊛	05/09/22 14:40	05/10/22 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	⊛	05/11/22 13:12	05/11/22 17:16	1
pH	8.0		0.2	0.2	SU			05/03/22 21:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B05

Lab Sample ID: 500-215774-4

Date Collected: 04/27/22 11:00

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00084	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Acetone	<0.019	*1	0.019	0.0085	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Carbon tetrachloride	<0.0019	*+	0.0019	0.00057	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Chloroform	<0.0019		0.0019	0.00068	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Dibromochloromethane	<0.0019	*+	0.0019	0.00064	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Tetrachloroethene	<0.0019	*+	0.0019	0.00066	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	✳	04/28/22 18:22	05/05/22 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	04/28/22 18:22	05/05/22 20:12	1
4-Bromofluorobenzene (Surr)	82		75 - 131	04/28/22 18:22	05/05/22 20:12	1
Dibromofluoromethane	122		75 - 126	04/28/22 18:22	05/05/22 20:12	1
Toluene-d8 (Surr)	124		75 - 124	04/28/22 18:22	05/05/22 20:12	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	✳	05/10/22 08:04	05/11/22 20:01	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B05

Lab Sample ID: 500-215774-4

Date Collected: 04/27/22 11:00

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2-Methylnaphthalene	<0.086		0.086	0.0078	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Benzo[b]fluoranthene	<0.042		0.042	0.0092	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Benzo[k]fluoranthene	<0.042		0.042	0.013	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Carbazole	<0.21		0.21	0.11	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Chrysene	<0.042		0.042	0.012	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B05

Lab Sample ID: 500-215774-4

Date Collected: 04/27/22 11:00

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Isophorone	<0.21		0.21	0.048	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Phenol	<0.21		0.21	0.094	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	✳	05/10/22 08:04	05/11/22 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		31 - 143	05/10/22 08:04	05/11/22 20:01	1
2-Fluorobiphenyl	39	S1-	43 - 145	05/10/22 08:04	05/11/22 20:01	1
2-Fluorophenol	69		31 - 166	05/10/22 08:04	05/11/22 20:01	1
Nitrobenzene-d5 (Surr)	46		37 - 147	05/10/22 08:04	05/11/22 20:01	1
Phenol-d5	59		30 - 153	05/10/22 08:04	05/11/22 20:01	1
Terphenyl-d14 (Surr)	119		42 - 157	05/10/22 08:04	05/11/22 20:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.3	0.25	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Arsenic	8.9		0.63	0.22	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Barium	68		0.63	0.072	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Beryllium	0.75		0.25	0.059	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Boron	3.0	J	3.2	0.30	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Cadmium	<0.13		0.13	0.023	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Calcium	25000		13	2.1	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Chromium	15	B	0.63	0.31	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Cobalt	10		0.32	0.083	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Copper	16	B	0.63	0.18	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Iron	19000	B	13	6.6	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Lead	40		0.32	0.15	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Magnesium	15000		6.3	3.1	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Manganese	490	B	0.63	0.092	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Nickel	31		0.63	0.18	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Potassium	940		32	11	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Selenium	<0.63		0.63	0.37	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Silver	0.49		0.32	0.082	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Sodium	100		63	9.4	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Thallium	<0.63		0.63	0.32	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Vanadium	32		0.32	0.075	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1
Zinc	64		1.3	0.56	mg/Kg	✳	05/05/22 09:38	05/05/22 17:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24	J	0.40	0.20	mg/L		05/05/22 15:23	05/06/22 14:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/05/22 15:23	05/06/22 14:09	1
Manganese	0.25		0.025	0.010	mg/L		05/05/22 15:23	05/06/22 14:09	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B05

Lab Sample ID: 500-215774-4

Date Collected: 04/27/22 11:00

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017	J	0.050	0.010	mg/L		05/05/22 15:27	05/06/22 13:30	1
Barium	0.27	J	0.50	0.050	mg/L		05/05/22 15:27	05/06/22 13:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/22 15:27	05/06/22 13:30	1
Boron	<0.10		0.10	0.050	mg/L		05/05/22 15:27	05/06/22 13:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/22 15:27	05/06/22 13:30	1
Calcium	16		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:30	1
Chromium	0.061		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:30	1
Cobalt	0.011	J	0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:30	1
Iron	60		0.40	0.20	mg/L		05/05/22 15:27	05/06/22 13:30	1
Lead	0.045		0.0075	0.0075	mg/L		05/05/22 15:27	05/06/22 13:30	1
Manganese	0.81		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:30	1
Nickel	0.056		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:30	1
Potassium	5.8		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:30	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/22 15:27	05/06/22 13:30	1
Silver	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:30	1
Zinc	0.17	J ^+	0.50	0.020	mg/L		05/05/22 15:27	05/06/22 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/05/22 15:27	05/06/22 18:30	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		05/05/22 15:27	05/06/22 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/09/22 11:05	05/10/22 10:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.020	0.0067	mg/Kg	⊛	05/09/22 14:40	05/10/22 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.17	J	0.30	0.15	mg/Kg	⊛	05/11/22 13:12	05/11/22 17:17	1
pH	7.4		0.2	0.2	SU			05/03/22 21:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B06

Lab Sample ID: 500-215774-5

Date Collected: 04/27/22 11:10

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 92.4

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	☼	04/28/22 18:22	05/06/22 12:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Bromomethane	<0.0045	*+	0.0045	0.0017	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	04/28/22 18:22	05/06/22 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	04/28/22 18:22	05/06/22 12:11	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/28/22 18:22	05/06/22 12:11	1
Dibromofluoromethane	104		75 - 126	04/28/22 18:22	05/06/22 12:11	1
Toluene-d8 (Surr)	92		75 - 124	04/28/22 18:22	05/06/22 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	05/10/22 08:04	05/11/22 20:23	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	05/10/22 08:04	05/11/22 20:23	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	05/10/22 08:04	05/11/22 20:23	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	05/10/22 08:04	05/11/22 20:23	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	05/10/22 08:04	05/11/22 20:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B06

Lab Sample ID: 500-215774-5

Date Collected: 04/27/22 11:10

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Carbazole	<0.18		0.18	0.088	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Chrysene	<0.035		0.035	0.0096	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B06

Lab Sample ID: 500-215774-5

Date Collected: 04/27/22 11:10

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 92.4

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	<0.035		0.035	0.0091	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Isophorone	<0.18		0.18	0.039	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Phenol	<0.18		0.18	0.078	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	✳	05/10/22 08:04	05/11/22 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		31 - 143				05/10/22 08:04	05/11/22 20:23	1
2-Fluorobiphenyl	47		43 - 145				05/10/22 08:04	05/11/22 20:23	1
2-Fluorophenol	79		31 - 166				05/10/22 08:04	05/11/22 20:23	1
Nitrobenzene-d5 (Surr)	43		37 - 147				05/10/22 08:04	05/11/22 20:23	1
Phenol-d5	74		30 - 153				05/10/22 08:04	05/11/22 20:23	1
Terphenyl-d14 (Surr)	124		42 - 157				05/10/22 08:04	05/11/22 20:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.0	0.20	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Arsenic	5.6		0.52	0.18	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Barium	28		2.6	0.29	mg/Kg	✳	05/05/22 09:38	05/06/22 23:12	5
Beryllium	0.26		0.21	0.048	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Boron	7.0		2.6	0.24	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Cadmium	0.089	J B	0.10	0.019	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Calcium	140000		52	8.7	mg/Kg	✳	05/05/22 09:38	05/06/22 23:12	5
Chromium	6.1	B	0.52	0.26	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Cobalt	3.5		0.26	0.068	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Copper	13	B	0.52	0.14	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Iron	13000	B	52	27	mg/Kg	✳	05/05/22 09:38	05/06/22 23:12	5
Lead	7.2		0.26	0.12	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Magnesium	82000		26	13	mg/Kg	✳	05/05/22 09:38	05/06/22 23:12	5
Manganese	280	B	0.52	0.075	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Nickel	9.2		0.52	0.15	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Potassium	600		26	9.1	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Selenium	<0.52		0.52	0.30	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Silver	<0.26		0.26	0.066	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Sodium	150		52	7.6	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Thallium	<0.52		0.52	0.26	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Vanadium	11		0.26	0.061	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	1
Zinc	26		1.0	0.45	mg/Kg	✳	05/05/22 09:38	05/05/22 17:45	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		05/05/22 15:27	05/06/22 13:33	1
Barium	<0.50		0.50	0.050	mg/L		05/05/22 15:27	05/06/22 13:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/22 15:27	05/06/22 13:33	1
Boron	<0.10		0.10	0.050	mg/L		05/05/22 15:27	05/06/22 13:33	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B06

Lab Sample ID: 500-215774-5

Date Collected: 04/27/22 11:10

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/22 15:27	05/06/22 13:33	1
Calcium	7.4		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:33	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:33	1
Cobalt	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:33	1
Iron	0.30	J	0.40	0.20	mg/L		05/05/22 15:27	05/06/22 13:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/05/22 15:27	05/06/22 13:33	1
Manganese	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:33	1
Nickel	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:33	1
Potassium	<2.5		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:33	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/22 15:27	05/06/22 13:33	1
Silver	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:33	1
Zinc	<0.50	^+	0.50	0.020	mg/L		05/05/22 15:27	05/06/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/05/22 15:27	05/06/22 18:34	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		05/05/22 15:27	05/06/22 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/09/22 11:05	05/10/22 10:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0057	J	0.017	0.0057	mg/Kg	⊛	05/09/22 14:40	05/10/22 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	⊛	05/11/22 13:12	05/11/22 17:19	1
pH	8.3		0.2	0.2	SU			05/03/22 21:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B07

Lab Sample ID: 500-215774-6

Date Collected: 04/27/22 11:20

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 91.1

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	✳	04/28/22 18:22	05/05/22 21:02	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Acetone	<0.017	*1	0.017	0.0075	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Carbon tetrachloride	<0.0017	*+	0.0017	0.00050	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Dibromochloromethane	<0.0017	*+	0.0017	0.00057	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Methylene Chloride	0.0020	J	0.0043	0.0017	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Tetrachloroethene	<0.0017	*+	0.0017	0.00059	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	✳	04/28/22 18:22	05/05/22 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	04/28/22 18:22	05/05/22 21:02	1
4-Bromofluorobenzene (Surr)	87		75 - 131	04/28/22 18:22	05/05/22 21:02	1
Dibromofluoromethane	124		75 - 126	04/28/22 18:22	05/05/22 21:02	1
Toluene-d8 (Surr)	130	S1+	75 - 124	04/28/22 18:22	05/05/22 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✳	05/10/22 08:04	05/11/22 20:46	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✳	05/10/22 08:04	05/11/22 20:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	✳	05/10/22 08:04	05/11/22 20:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	✳	05/10/22 08:04	05/11/22 20:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✳	05/10/22 08:04	05/11/22 20:46	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B07

Lab Sample ID: 500-215774-6

Date Collected: 04/27/22 11:20

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Chrysene	<0.035		0.035	0.0096	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B07

Lab Sample ID: 500-215774-6

Date Collected: 04/27/22 11:20

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 91.1

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	<0.035		0.035	0.0091	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Phenol	<0.18		0.18	0.078	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	05/10/22 08:04	05/11/22 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143	05/10/22 08:04	05/11/22 20:46	1
2-Fluorobiphenyl	54		43 - 145	05/10/22 08:04	05/11/22 20:46	1
2-Fluorophenol	75		31 - 166	05/10/22 08:04	05/11/22 20:46	1
Nitrobenzene-d5 (Surr)	51		37 - 147	05/10/22 08:04	05/11/22 20:46	1
Phenol-d5	68		30 - 153	05/10/22 08:04	05/11/22 20:46	1
Terphenyl-d14 (Surr)	122		42 - 157	05/10/22 08:04	05/11/22 20:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Arsenic	6.1		0.51	0.18	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Barium	37		0.51	0.058	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Beryllium	0.41		0.21	0.048	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Boron	3.0		2.6	0.24	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Cadmium	<0.10		0.10	0.018	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Calcium	65000		51	8.7	mg/Kg	☼	05/05/22 09:38	05/09/22 16:08	5
Chromium	7.7 B		0.51	0.25	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Cobalt	10		1.3	0.34	mg/Kg	☼	05/05/22 09:38	05/09/22 16:08	5
Copper	34 B		0.51	0.14	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Iron	17000 B		10	5.3	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Lead	9.9		0.26	0.12	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Magnesium	28000		5.1	2.5	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Manganese	320 B		0.51	0.074	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Nickel	24		0.51	0.15	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Potassium	520		26	9.1	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Selenium	<0.51		0.51	0.30	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Silver	0.18 J		0.26	0.066	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Sodium	620		51	7.6	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Thallium	<0.51		0.51	0.26	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Vanadium	34		0.26	0.061	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1
Zinc	46		1.0	0.45	mg/Kg	☼	05/05/22 09:38	05/05/22 17:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/05/22 15:23	05/06/22 14:15	1
Manganese	0.55		0.025	0.010	mg/L		05/05/22 15:23	05/06/22 14:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B07

Lab Sample ID: 500-215774-6

Date Collected: 04/27/22 11:20

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 91.1

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		05/05/22 15:27	05/06/22 13:53	1
Barium	0.12	J	0.50	0.050	mg/L		05/05/22 15:27	05/06/22 13:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/22 15:27	05/06/22 13:53	1
Boron	<0.10		0.10	0.050	mg/L		05/05/22 15:27	05/06/22 13:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/22 15:27	05/06/22 13:53	1
Calcium	13		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:53	1
Chromium	0.026		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:53	1
Cobalt	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:53	1
Iron	25		0.40	0.20	mg/L		05/05/22 15:27	05/06/22 13:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/05/22 15:27	05/06/22 13:53	1
Manganese	0.35		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:53	1
Nickel	0.024	J	0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:53	1
Potassium	3.2		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:53	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/22 15:27	05/06/22 13:53	1
Silver	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:53	1
Zinc	0.11	J ^+	0.50	0.020	mg/L		05/05/22 15:27	05/06/22 13:53	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		05/05/22 15:27	05/06/22 18:55	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		05/05/22 15:27	05/06/22 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/09/22 11:05	05/10/22 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.016	0.0055	mg/Kg	⊛	05/09/22 14:40	05/10/22 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26	F1	0.26	0.13	mg/Kg	⊛	05/11/22 13:12	05/11/22 17:20	1
pH	8.1		0.2	0.2	SU			05/03/22 21:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B08

Lab Sample ID: 500-215774-7

Date Collected: 04/27/22 11:30

Matrix: Solid

Date Received: 04/28/22 12:12

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	<0.0039		0.0039	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
1,1-Dichloroethane	<0.0039		0.0039	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
1,1-Dichloroethene	<0.0039		0.0039	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
1,2-Dichloroethane	<0.0097		0.0097	0.0030	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0014	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
2-Butanone (MEK)	<0.0097		0.0097	0.0043	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
2-Hexanone	<0.0097		0.0097	0.0030	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
4-Methyl-2-pentanone (MIBK)	<0.0097		0.0097	0.0029	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Acetone	0.028	J *	0.039	0.017	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Benzene	<0.0039		0.0039	0.00099	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Bromodichloromethane	<0.0039		0.0039	0.00079	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Bromoform	<0.0039		0.0039	0.0011	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Bromomethane	<0.0097		0.0097	0.0037	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Carbon disulfide	<0.0097		0.0097	0.0020	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Carbon tetrachloride	<0.0039	*+	0.0039	0.0011	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Chlorobenzene	<0.0039		0.0039	0.0014	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Chloroethane	<0.0097		0.0097	0.0029	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Chloroform	<0.0039		0.0039	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Chloromethane	<0.0097		0.0097	0.0039	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.0012	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Dibromochloromethane	<0.0039	*+	0.0039	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Ethylbenzene	<0.0039		0.0039	0.0018	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Methyl tert-butyl ether	<0.0039		0.0039	0.0011	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Methylene Chloride	<0.0097		0.0097	0.0038	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Styrene	<0.0039		0.0039	0.0012	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Tetrachloroethene	<0.0039	*+	0.0039	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Toluene	0.0012	J	0.0039	0.00098	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.0017	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0014	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Trichloroethene	<0.0039		0.0039	0.0013	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Vinyl chloride	<0.0039		0.0039	0.0017	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1
Xylenes, Total	<0.0077		0.0077	0.0012	mg/Kg	☼	04/28/22 18:22	05/05/22 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	04/28/22 18:22	05/05/22 21:26	1
4-Bromofluorobenzene (Surr)	85		75 - 131	04/28/22 18:22	05/05/22 21:26	1
Dibromofluoromethane	128	S1+	75 - 126	04/28/22 18:22	05/05/22 21:26	1
Toluene-d8 (Surr)	131	S1+	75 - 124	04/28/22 18:22	05/05/22 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/10/22 08:04	05/11/22 21:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	05/10/22 08:04	05/11/22 21:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/10/22 08:04	05/11/22 21:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	05/10/22 08:04	05/11/22 21:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	05/10/22 08:04	05/11/22 21:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B08

Lab Sample ID: 500-215774-7

Date Collected: 04/27/22 11:30

Matrix: Solid

Date Received: 04/28/22 12:12

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	<0.37		0.37	0.085	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Chrysene	<0.037		0.037	0.010	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	05/10/22 08:04	05/11/22 21:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B08

Lab Sample ID: 500-215774-7

Date Collected: 04/27/22 11:30

Matrix: Solid

Date Received: 04/28/22 12:12

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	<0.037		0.037	0.0097	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
Phenol	<0.19		0.19	0.083	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☆	05/10/22 08:04	05/11/22 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143				05/10/22 08:04	05/11/22 21:08	1
2-Fluorobiphenyl	51		43 - 145				05/10/22 08:04	05/11/22 21:08	1
2-Fluorophenol	74		31 - 166				05/10/22 08:04	05/11/22 21:08	1
Nitrobenzene-d5 (Surr)	50		37 - 147				05/10/22 08:04	05/11/22 21:08	1
Phenol-d5	67		30 - 153				05/10/22 08:04	05/11/22 21:08	1
Terphenyl-d14 (Surr)	122		42 - 157				05/10/22 08:04	05/11/22 21:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.23	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Arsenic	10		0.59	0.20	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Barium	80		0.59	0.067	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Beryllium	0.83		0.23	0.055	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Boron	3.8		2.9	0.27	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Calcium	30000		12	2.0	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Chromium	18	B	0.59	0.29	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Cobalt	10		0.59	0.15	mg/Kg	☆	05/05/22 09:38	05/06/22 23:18	2
Copper	19	B	0.59	0.16	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Iron	21000	B	12	6.1	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Lead	16		0.29	0.14	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Magnesium	18000		5.9	2.9	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Manganese	550	B	0.59	0.085	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Nickel	26		0.59	0.17	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Potassium	1100		29	10	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Selenium	0.48	J	0.59	0.34	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Silver	0.35		0.29	0.076	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Sodium	89		59	8.7	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Thallium	<0.59		0.59	0.29	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Vanadium	38		0.29	0.069	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1
Zinc	63		1.2	0.51	mg/Kg	☆	05/05/22 09:38	05/05/22 17:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22	J	0.40	0.20	mg/L		05/05/22 15:23	05/06/22 14:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/05/22 15:23	05/06/22 14:18	1
Manganese	0.41		0.025	0.010	mg/L		05/05/22 15:23	05/06/22 14:18	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Client Sample ID: 2773V2-93-B08

Lab Sample ID: 500-215774-7

Date Collected: 04/27/22 11:30

Matrix: Solid

Date Received: 04/28/22 12:12

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017	J	0.050	0.010	mg/L		05/05/22 15:27	05/06/22 13:56	1
Barium	0.28	J	0.50	0.050	mg/L		05/05/22 15:27	05/06/22 13:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/22 15:27	05/06/22 13:56	1
Boron	0.050	J	0.10	0.050	mg/L		05/05/22 15:27	05/06/22 13:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/22 15:27	05/06/22 13:56	1
Calcium	17		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:56	1
Chromium	0.060		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:56	1
Cobalt	0.011	J	0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:56	1
Iron	60		0.40	0.20	mg/L		05/05/22 15:27	05/06/22 13:56	1
Lead	0.019		0.0075	0.0075	mg/L		05/05/22 15:27	05/06/22 13:56	1
Manganese	0.80		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:56	1
Nickel	0.056		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:56	1
Potassium	6.1		2.5	0.50	mg/L		05/05/22 15:27	05/06/22 13:56	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/22 15:27	05/06/22 13:56	1
Silver	<0.025		0.025	0.010	mg/L		05/05/22 15:27	05/06/22 13:56	1
Zinc	0.21	J ^+	0.50	0.020	mg/L		05/05/22 15:27	05/06/22 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/05/22 15:27	05/06/22 18:58	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		05/05/22 15:27	05/06/22 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/09/22 11:05	05/10/22 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.018	0.0060	mg/Kg	⊛	05/09/22 14:40	05/10/22 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.13	J	0.27	0.13	mg/Kg	⊛	05/11/22 13:12	05/11/22 17:25	1
pH	7.5		0.2	0.2	SU			05/03/22 22:01	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD 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.

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.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-059

Job ID: 500-215774-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - AE7-059

Job ID: 500-215774-1


Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

- 1
- 2
- 3
- 4
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- 10
- 11
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- 13
- 14
- 15

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, 3300 Ginger Creek Dr Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	 500-215774 COC	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@testamericainc.com</u>	Project Name <u>AE7-059A</u> Project No <u>PTB/NO#: 184-006/059A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>A. Bascaglia / S. Khodaei</u>	COC No <u>1</u> of <u>1</u> Lab Job No <u>500-215774</u> Sample Temp <u>51-74</u> <u>3.5-2.5</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

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

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2773V2-93-B03	4/27/22	1030	S	X	X					X	X	X	X	X		
2	2773V2-93-B02	4/27/22	1040	S	X	X					X	X	X	X	X		
3	2773V2-93-B01	4/27/22	1050	S	X	X					X	X	X	X	X		
4	2773V2-93-B05	4/27/22	1100	S	X	X					X	X	X	X	X		
5	2773V2-93-B06	4/27/22	1110	S	X	X					X	X	X	X	X		
6	2773V2-93-B07	4/27/22	1120	S	X	X					X	X	X	X	X		
7	2773V2-93-B08	4/27/22	1130	S	X	X					X	X	X	X	X		
8	2773V2-93-B09	4/27/22	1140	S	X	X					X	X	X	X	X		

Relinquished by <u>[Signature]</u>	Date/Time <u>4/27/22 1330</u>	Received by <u>[Signature]</u>	Date/Time <u>4/27/22 1330</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/28/22 1117</u>	Received by <u>[Signature]</u>	Date/Time <u>4/28/22 1117</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/28/22 1212</u>	Received by <u>[Signature]</u>	Date/Time <u>4/28/22 1212</u>