



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: FAI 94 (I-94) Office Phone Number, if available: _____

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

I-94-STA. 448+30.00 to STA 607+23.00 (from just north I-94/Dolton Rd interchange to just south the I-94/159th St. interchange)

City: CalumetCity,Dolton,SouthH State: IL Zip Code: 60633,60473,406

County: Cook Township: Thornton

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

Latitude: 41.61507 Longitude: - 87.57869
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

Additional BOLs: 0312973013, 0312973014, 0312975126, AND 0310695110.

IEPA Site Number(s), if assigned: BOL: 0310395133 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 1,798

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 4231-1-B02, -B03, -B04, -B05, -B06, -B07, -B08, -B09, -B10, -B11, -B12, -B13, -B17, -B21, -B22, -B23, -B24, -B26, -B30, -B33, -B34, -B36, -B37, -B39, -B40 AND -B41 WERE SAMPLED ADJACENT TO SITE 4231-1. SEE TABLE 3 AND FIGURES 4, 5, 6, 7, 8, 9, 12, AND 13 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBERS: 500-262654-1, 500-262789-1, AND 500-262867-1.

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

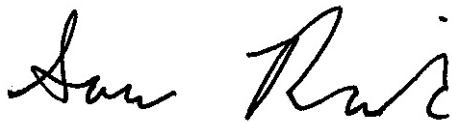
I, Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the 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:

Feb 7, 2025

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
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
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 4231-1

ROW

Sample ID	4231-1-B02	4231-1-B03	4231-1-B04	4231-1-B05-1	4231-1-B05-2	Maximum Allowable Concentration								
Sample Depth (ft)	0-5	0-5	0-5	0-6.5	6.5-13	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area				
Sample Date	1/15/2025	1/15/2025	1/15/2025	1/15/2025	1/15/2025									
PID	0	0	0	0	0									
Sample pH	8.7	8.6	7.9	8.5	8.3									
Matrix	Soil	Soil	Soil	Soil	Soil									
Inorganic Compounds, Total (mg/kg)														
Arsenic	9.6	9.5	6.5	5	7	11.3	--	11.3	--	13				

Sample ID	4231-1-B06		4231-1-B07		4231-1-B08		4231-1-B09		4231-1-B09 DUP		Maximum Allowable Concentration					
Sample Depth (ft)	0-5		0-5		0-5		0-5		0-5		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	1/15/2025		1/15/2025		1/15/2025		1/13/2025		1/13/2025							
PID	0		0		0		0		0							
Sample pH	7.9		7.4		8.8		7.7		7.4							
Matrix	Soil		Soil		Soil		Soil		Soil							
Inorganic Compounds, Total (mg/kg)																
Arsenic	6		13	1,3	2.9		1.5		1.5		11.3	--	11.3	--	13	

Sample ID	4231-1-B10	4231-1-B11	4231-1-B12	4231-1-B13	4231-1-B17	Maximum Allowable Concentration								
Sample Depth (ft)	0-5	0-5	0-5	0-5	0-3									
Sample Date	1/13/2025	1/13/2025	1/13/2025	1/13/2025	1/16/2025	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area				
PID	0	0	0	0	0									
Sample pH	8.5	7.9	8.8	8.2	7									
Matrix	Soil	Soil	Soil	Soil	Soil									
Inorganic Compounds, Total (mg/kg)														
Arsenic	1.7	2	9.2	11	2.1	11.3	--	11.3	--	13				

Sample ID	4231-1-B21		4231-1-B22		4231-1-B22 DUP		4231-1-B23		4231-1-B24		Maximum Allowable Concentration									
Sample Depth (ft)	0-5		0-5		0-5		0-5		0-5											
Sample Date	1/16/2025		1/13/2025		1/13/2025		1/13/2025		1/13/2025		¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area					
PID	0		0		0		0		0											
Sample pH	7.2		7.8		7.8		7.9		7.9											
Matrix	Soil		Soil		Soil		Soil		Soil											
Inorganic Compounds, Total (mg/kg)																				
Arsenic	8.1		5.7		6.1		3.4		5.2		11.3		--		11.3		--		13	

ISGS Site 4231-1

ROW

Sample ID	4231-1-B26-1		4231-1-B26-2		4231-1-B30		4231-1-B33		4231-1-B34		Maximum Allowable Concentration									
Sample Depth (ft)	0-6.5		6.5-13		0-5		0-5		0-5		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	1/15/2025		1/15/2025		1/13/2025		1/15/2025		1/15/2025											
PID	0		0		0		0		0											
Sample pH	8.9		8.2		7.4		7.9		8											
Matrix	Soil		Soil		Soil		Soil		Soil											
Inorganic Compounds, Total (mg/kg)																				
Arsenic	7.1		6.9		1.9		1.9		2.5		11.3		--		11.3		--		13	

Sample ID	4231-1-B36		4231-1-B37		4231-1-B39		4231-1-B40		4231-1-B41		Maximum Allowable Concentration				
Sample Depth (ft)	0-5		0-5		0-2		0-2		0-2		¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	1/13/2025		1/13/2025		1/13/2025		1/13/2025		1/13/2025						
PID	0		0		0		0		0						
Sample pH	8.7		8.2		8.7		8.8		8.2						
Matrix	Soil		Soil		Soil		Soil		Soil						
Inorganic Compounds, Total (mg/kg)															
Arsenic	9.5		7.9		8.8		6.9		6.8		11.3	--	11.3	--	13

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

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JOB DESCRIPTION

IDOT - AE8-040A

JOB NUMBER

500-262654-1

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Jodie Bracken, Project Manager I
Joann.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B36

Lab Sample ID: 500-262654-1

Date Collected: 01/13/25 09:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00069	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00085	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00064	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
1,1-Dichloroethane	<0.0017		0.0017	0.00064	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
1,1-Dichloroethene	<0.0017		0.0017	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
1,2-Dichloroethane	<0.0043		0.0043	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00082	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
2-Hexanone	<0.0043		0.0043	0.0026	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0030	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Acetone	<0.017		0.017	0.0072	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Benzene	<0.0017		0.0017	0.00054	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Bromodichloromethane	<0.0017		0.0017	0.00055	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Bromoform	<0.0017		0.0017	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Bromomethane	<0.0043		0.0043	0.0021	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Carbon disulfide	<0.0043		0.0043	0.00079	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Carbon tetrachloride	<0.0017		0.0017	0.00058	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Chlorobenzene	<0.0017		0.0017	0.00072	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Chloroethane	<0.0043		0.0043	0.0014	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Chloroform	<0.0017		0.0017	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Chloromethane	<0.0043	*	0.0043	0.00083	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00069	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00068	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Dibromochloromethane	<0.0017		0.0017	0.00079	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Ethylbenzene	<0.0017		0.0017	0.00090	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00055	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Methylene Chloride	<0.0043		0.0043	0.0018	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Styrene	<0.0017		0.0017	0.00077	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Tetrachloroethene	<0.0017		0.0017	0.00096	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Toluene	<0.0017		0.0017	0.00034	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00082	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Trichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Vinyl chloride	<0.0017	*	0.0017	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1
Xylenes, Total	<0.0034		0.0034	0.00059	mg/Kg	☆	01/14/25 17:55	01/16/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	01/14/25 17:55	01/16/25 12:27	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/14/25 17:55	01/16/25 12:27	1
Dibromofluoromethane (Surr)	98		75 - 126	01/14/25 17:55	01/16/25 12:27	1
Toluene-d8 (Surr)	97		75 - 124	01/14/25 17:55	01/16/25 12:27	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B36

Lab Sample ID: 500-262654-1

Date Collected: 01/13/25 09:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.1

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2-Methylnaphthalene	<0.076		0.076	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
4-Chloroaniline	<0.76		0.76	0.39	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Acenaphthylene	<0.037		0.037	0.0064	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Anthracene	<0.037		0.037	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Benzo[a]anthracene	<0.037		0.037	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Chrysene	<0.037		0.037	0.0099	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Fluoranthene	<0.037		0.037	0.0087	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B36

Lab Sample ID: 500-262654-1

Date Collected: 01/13/25 09:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.1

Method: SW846 8270E - 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	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Naphthalene	<0.037		0.037	0.0068	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0074	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Pentachlorophenol	<0.76		0.76	0.094	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Phenanthrene	<0.037		0.037	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		31 - 143	01/15/25 07:23	01/15/25 15:24	1
2-Fluorobiphenyl (Surr)	86		43 - 145	01/15/25 07:23	01/15/25 15:24	1
2-Fluorophenol (Surr)	82		31 - 166	01/15/25 07:23	01/15/25 15:24	1
Nitrobenzene-d5 (Surr)	82		37 - 147	01/15/25 07:23	01/15/25 15:24	1
Phenol-d5 (Surr)	86		30 - 153	01/15/25 07:23	01/15/25 15:24	1
Terphenyl-d14 (Surr)	96		42 - 157	01/15/25 07:23	01/15/25 15:24	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2	F1	2.2	0.43	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Arsenic	9.5		1.1	0.38	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Barium	66		1.1	0.13	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Beryllium	0.93		0.45	0.10	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Boron	19		5.6	0.52	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Cadmium	0.094	J	0.22	0.040	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Calcium	7000	B F2	22	3.8	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Chromium	25		1.1	0.55	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Cobalt	16		0.56	0.15	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Copper	20		1.1	0.31	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Iron	27000		22	12	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Lead	22	F1	0.56	0.26	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Magnesium	7800	F2	11	5.5	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Manganese	430	F2	1.1	0.16	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Nickel	40		1.1	0.32	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Potassium	3500	F1	56	20	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Selenium	<1.1		1.1	0.66	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Silver	6.2		0.56	0.14	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Sodium	2600	F1	110	17	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Thallium	2.0		1.1	0.56	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Vanadium	29		0.56	0.13	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1
Zinc	71		2.2	0.98	mg/Kg	☆	01/15/25 09:06	01/15/25 23:20	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:30	01/20/25 17:28	1
Manganese	0.47		0.025	0.010	mg/L		01/17/25 14:30	01/20/25 17:28	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B36

Lab Sample ID: 500-262654-1

Date Collected: 01/13/25 09:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050	F1	0.050	0.010	mg/L		01/17/25 14:28	01/20/25 14:45	1
Barium	0.43	J F1	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 14:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 14:45	1
Boron	0.087	J	0.10	0.050	mg/L		01/17/25 14:28	01/20/25 14:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 14:45	1
Calcium	30		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 14:45	1
Chromium	<0.025	F1	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 14:45	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 14:45	1
Iron	3.0	F1	0.40	0.20	mg/L		01/17/25 14:28	01/20/25 14:45	1
Lead	0.022	F1	0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 14:45	1
Manganese	0.26	F1	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 14:45	1
Nickel	0.012	J F1	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 14:45	1
Potassium	1.5	J F1	2.5	0.50	mg/L		01/17/25 14:28	01/20/25 14:45	1
Selenium	<0.050	F1	0.050	0.020	mg/L		01/17/25 14:28	01/20/25 14:45	1
Silver	<0.025	F1	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 14:45	1
Zinc	0.045	J F1	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 14:45	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 22:58	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 22:58	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.018	0.0074	mg/Kg	✱	01/23/25 13:30	01/24/25 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	01/15/25 11:12	01/15/25 13:47	1
pH (SW846 9045D)	8.7		0.2	0.2	SU			01/15/25 10:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B37

Lab Sample ID: 500-262654-2

Date Collected: 01/13/25 09:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00066	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00081	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00061	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
1,1-Dichloroethane	<0.0016		0.0016	0.00062	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
1,1-Dichloroethene	<0.0016		0.0016	0.00068	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
1,2-Dichloroethane	<0.0041		0.0041	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00079	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
2-Hexanone	<0.0041		0.0041	0.0025	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0029	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Acetone	<0.016		0.016	0.0069	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Benzene	<0.0016		0.0016	0.00052	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Bromodichloromethane	<0.0016		0.0016	0.00053	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Bromoform	<0.0016		0.0016	0.00096	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Bromomethane	<0.0041		0.0041	0.0020	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Carbon disulfide	<0.0041		0.0041	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Carbon tetrachloride	<0.0016		0.0016	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Chlorobenzene	<0.0016		0.0016	0.00069	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Chloroethane	<0.0041		0.0041	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Chloroform	<0.0016		0.0016	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Chloromethane	<0.0041	*	0.0041	0.00080	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00066	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00066	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Dibromochloromethane	<0.0016		0.0016	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Ethylbenzene	<0.0016		0.0016	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00053	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Methylene Chloride	<0.0041		0.0041	0.0018	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Styrene	<0.0016		0.0016	0.00074	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Tetrachloroethene	<0.0016		0.0016	0.00092	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Toluene	<0.0016		0.0016	0.00033	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00062	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00079	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Trichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Vinyl chloride	<0.0016	*	0.0016	0.00067	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1
Xylenes, Total	<0.0033		0.0033	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/14/25 17:55	01/16/25 12:51	1
4-Bromofluorobenzene (Surr)	102		75 - 131	01/14/25 17:55	01/16/25 12:51	1
Dibromofluoromethane (Surr)	98		75 - 126	01/14/25 17:55	01/16/25 12:51	1
Toluene-d8 (Surr)	99		75 - 124	01/14/25 17:55	01/16/25 12:51	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B37

Lab Sample ID: 500-262654-2

Date Collected: 01/13/25 09:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.3

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2-Methylnaphthalene	<0.077		0.077	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Acenaphthylene	<0.038		0.038	0.0064	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Anthracene	<0.038		0.038	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Benzo[g,h,i]perylene	0.011	J	0.038	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B37

Lab Sample ID: 500-262654-2

Date Collected: 01/13/25 09:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.3

Method: SW846 8270E - 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	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1
Pyrene	<0.038		0.038	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		31 - 143	01/15/25 07:23	01/15/25 16:36	1
2-Fluorobiphenyl (Surr)	87		43 - 145	01/15/25 07:23	01/15/25 16:36	1
2-Fluorophenol (Surr)	88		31 - 166	01/15/25 07:23	01/15/25 16:36	1
Nitrobenzene-d5 (Surr)	86		37 - 147	01/15/25 07:23	01/15/25 16:36	1
Phenol-d5 (Surr)	89		30 - 153	01/15/25 07:23	01/15/25 16:36	1
Terphenyl-d14 (Surr)	98		42 - 157	01/15/25 07:23	01/15/25 16:36	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.44	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Arsenic	7.9		1.1	0.39	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Barium	67		1.1	0.13	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Beryllium	0.63		0.46	0.11	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Boron	21		5.7	0.53	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Cadmium	0.15 J		0.23	0.041	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Calcium	88000 B		110	19	mg/Kg	☆	01/15/25 09:06	01/16/25 16:25	5
Chromium	20		1.1	0.56	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Cobalt	8.6		0.57	0.15	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Copper	16		1.1	0.32	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Iron	21000		23	12	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Lead	7.6		2.8	1.3	mg/Kg	☆	01/15/25 09:06	01/16/25 16:25	5
Magnesium	24000		11	5.6	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Manganese	270		1.1	0.17	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Nickel	28		1.1	0.33	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Potassium	3200		57	20	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Selenium	<1.1		1.1	0.67	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Silver	4.8		0.57	0.15	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Sodium	1400		110	17	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Thallium	1.2		1.1	0.57	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Vanadium	26		0.57	0.13	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1
Zinc	53		2.3	1.0	mg/Kg	☆	01/15/25 09:06	01/15/25 23:51	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:30	01/20/25 17:55	1
Manganese	0.74		0.025	0.010	mg/L		01/17/25 14:30	01/20/25 17:55	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B37

Lab Sample ID: 500-262654-2

Date Collected: 01/13/25 09:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.3

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:02	1
Barium	0.24	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:02	1
Boron	0.074	J	0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 15:02	1
Calcium	93		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:02	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:02	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:02	1
Iron	2.0		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:02	1
Lead	0.012		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:02	1
Manganese	0.27		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:02	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:02	1
Potassium	1.2	J	2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:02	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:02	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:02	1
Zinc	0.078	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:02	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:08	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0076	mg/Kg	✱	01/23/25 13:30	01/24/25 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.13	mg/Kg	✱	01/15/25 11:12	01/15/25 13:49	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			01/15/25 10:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B23

Lab Sample ID: 500-262654-4

Date Collected: 01/13/25 09:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00066	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00081	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00061	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
1,1-Dichloroethane	<0.0016		0.0016	0.00061	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
1,1-Dichloroethene	<0.0016		0.0016	0.00067	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
1,2-Dichloroethane	<0.0041		0.0041	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00078	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
2-Hexanone	<0.0041		0.0041	0.0025	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0029	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Benzene	<0.0016		0.0016	0.00051	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Bromodichloromethane	<0.0016		0.0016	0.00052	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Bromoform	<0.0016		0.0016	0.00095	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Bromomethane	<0.0041		0.0041	0.0020	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Carbon disulfide	<0.0041		0.0041	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Carbon tetrachloride	<0.0016		0.0016	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Chlorobenzene	<0.0016		0.0016	0.00069	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Chloroethane	<0.0041		0.0041	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Chloroform	<0.0016		0.0016	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Chloromethane	<0.0041	*	0.0041	0.00079	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00066	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Dibromochloromethane	<0.0016		0.0016	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Ethylbenzene	<0.0016		0.0016	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00053	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Methylene Chloride	<0.0041		0.0041	0.0017	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Styrene	<0.0016		0.0016	0.00073	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Tetrachloroethene	<0.0016		0.0016	0.00091	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Toluene	<0.0016		0.0016	0.00033	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00062	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00078	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Trichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Vinyl chloride	<0.0016	*	0.0016	0.00067	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1
Xylenes, Total	<0.0033		0.0033	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	01/14/25 17:55	01/16/25 13:42	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/14/25 17:55	01/16/25 13:42	1
Dibromofluoromethane (Surr)	97		75 - 126	01/14/25 17:55	01/16/25 13:42	1
Toluene-d8 (Surr)	97		75 - 124	01/14/25 17:55	01/16/25 13:42	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B23

Lab Sample ID: 500-262654-4

Date Collected: 01/13/25 09:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.3

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2-Methylnaphthalene	<0.075		0.075	0.0074	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Acenaphthene	<0.037		0.037	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Chrysene	<0.037		0.037	0.0098	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Dimethyl phthalate	<0.19		0.19	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Fluoranthene	<0.037		0.037	0.0086	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B23

Lab Sample ID: 500-262654-4

Date Collected: 01/13/25 09:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.3

Method: SW846 8270E - 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	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		31 - 143	01/15/25 07:23	01/15/25 17:00	1
2-Fluorobiphenyl (Surr)	90		43 - 145	01/15/25 07:23	01/15/25 17:00	1
2-Fluorophenol (Surr)	93		31 - 166	01/15/25 07:23	01/15/25 17:00	1
Nitrobenzene-d5 (Surr)	89		37 - 147	01/15/25 07:23	01/15/25 17:00	1
Phenol-d5 (Surr)	93		30 - 153	01/15/25 07:23	01/15/25 17:00	1
Terphenyl-d14 (Surr)	104		42 - 157	01/15/25 07:23	01/15/25 17:00	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Arsenic	3.4		1.0	0.35	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Barium	28		1.0	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Beryllium	0.55		0.40	0.094	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Boron	18		5.1	0.47	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Cadmium	0.12 J		0.20	0.036	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Calcium	120000 B		100	17	mg/Kg	☆	01/15/25 09:06	01/16/25 16:33	5
Chromium	18		1.0	0.50	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Cobalt	8.0		0.51	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Copper	11		1.0	0.28	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Iron	16000		20	11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Lead	5.2		2.5	1.2	mg/Kg	☆	01/15/25 09:06	01/16/25 16:33	5
Magnesium	24000		10	5.0	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Manganese	290		1.0	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Nickel	24		1.0	0.29	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Potassium	2700		51	18	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Selenium	<1.0		1.0	0.59	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Silver	3.5		0.51	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Sodium	1700		100	15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Thallium	1.4		1.0	0.50	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Vanadium	22		0.51	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1
Zinc	39		2.0	0.89	mg/Kg	☆	01/15/25 09:06	01/16/25 00:00	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		01/17/25 14:25	01/20/25 16:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:25	01/20/25 16:25	1
Manganese	3.7		0.025	0.010	mg/L		01/17/25 14:25	01/20/25 16:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B23

Lab Sample ID: 500-262654-4

Date Collected: 01/13/25 09:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.3

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:19	1
Barium	0.19	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:19	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 15:19	1
Calcium	85		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:19	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:19	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:19	1
Iron	7.8		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:19	1
Lead	0.013		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:19	1
Manganese	0.29		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:19	1
Nickel	0.012	J	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:19	1
Potassium	2.5		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:19	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:19	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:19	1
Zinc	0.028	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:19	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:13	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:13	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0078	mg/Kg	✱	01/23/25 13:30	01/24/25 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	✱	01/15/25 11:12	01/15/25 13:59	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			01/15/25 10:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B24

Lab Sample ID: 500-262654-5

Date Collected: 01/13/25 10:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00072	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00089	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00067	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
1,1-Dichloroethane	<0.0018		0.0018	0.00067	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
1,1-Dichloroethene	<0.0018		0.0018	0.00073	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
1,2-Dichloroethane	<0.0045		0.0045	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
2-Hexanone	<0.0045		0.0045	0.0027	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0032	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Acetone	<0.018		0.018	0.0075	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Benzene	<0.0018		0.0018	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Bromodichloromethane	<0.0018		0.0018	0.00057	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Bromoform	<0.0018		0.0018	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Bromomethane	<0.0045		0.0045	0.0022	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Carbon disulfide	<0.0045		0.0045	0.00082	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Carbon tetrachloride	<0.0018		0.0018	0.00061	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Chlorobenzene	<0.0018		0.0018	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Chloroethane	<0.0045		0.0045	0.0015	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Chloroform	<0.0018		0.0018	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Chloromethane	<0.0045	*	0.0045	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00072	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00072	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Dibromochloromethane	<0.0018		0.0018	0.00083	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Ethylbenzene	<0.0018		0.0018	0.00094	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00058	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Methylene Chloride	<0.0045		0.0045	0.0019	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Styrene	<0.0018		0.0018	0.00080	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Tetrachloroethene	<0.0018		0.0018	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Toluene	<0.0018		0.0018	0.00036	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00067	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Trichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Vinyl chloride	<0.0018	*	0.0018	0.00073	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1
Xylenes, Total	<0.0036		0.0036	0.00061	mg/Kg	☆	01/14/25 17:55	01/16/25 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	01/14/25 17:55	01/16/25 14:07	1
4-Bromofluorobenzene (Surr)	97		75 - 131	01/14/25 17:55	01/16/25 14:07	1
Dibromofluoromethane (Surr)	95		75 - 126	01/14/25 17:55	01/16/25 14:07	1
Toluene-d8 (Surr)	97		75 - 124	01/14/25 17:55	01/16/25 14:07	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B24

Lab Sample ID: 500-262654-5

Date Collected: 01/13/25 10:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 85.0

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2,4-Dinitrophenol	<0.75		0.75	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2-Methylnaphthalene	<0.075		0.075	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Chrysene	<0.037		0.037	0.0098	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Fluoranthene	<0.037		0.037	0.0087	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Hexachlorocyclopentadiene	<0.75		0.75	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B24

Lab Sample ID: 500-262654-5

Date Collected: 01/13/25 10:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 85.0

Method: SW846 8270E - 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	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0074	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		31 - 143	01/15/25 07:23	01/15/25 17:24	1
2-Fluorobiphenyl (Surr)	85		43 - 145	01/15/25 07:23	01/15/25 17:24	1
2-Fluorophenol (Surr)	88		31 - 166	01/15/25 07:23	01/15/25 17:24	1
Nitrobenzene-d5 (Surr)	81		37 - 147	01/15/25 07:23	01/15/25 17:24	1
Phenol-d5 (Surr)	89		30 - 153	01/15/25 07:23	01/15/25 17:24	1
Terphenyl-d14 (Surr)	99		42 - 157	01/15/25 07:23	01/15/25 17:24	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.44	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Arsenic	5.2		1.1	0.39	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Barium	53		1.1	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Beryllium	0.63		0.46	0.11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Boron	17		5.7	0.53	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Cadmium	0.12 J		0.23	0.041	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Calcium	99000 B		110	19	mg/Kg	☆	01/15/25 09:06	01/16/25 16:38	5
Chromium	19		1.1	0.56	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Cobalt	10		0.57	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Copper	13		1.1	0.32	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Iron	18000		23	12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Lead	7.0		2.9	1.3	mg/Kg	☆	01/15/25 09:06	01/16/25 16:38	5
Magnesium	27000		11	5.7	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Manganese	390		1.1	0.17	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Nickel	27		1.1	0.33	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Potassium	2600		57	20	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Selenium	<1.1		1.1	0.67	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Silver	4.0		0.57	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Sodium	190		110	17	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Thallium	1.8		1.1	0.57	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Vanadium	24		0.57	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1
Zinc	40		2.3	1.0	mg/Kg	☆	01/15/25 09:06	01/16/25 00:05	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:24	1
Barium	<0.50		0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:24	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B24

Lab Sample ID: 500-262654-5

Date Collected: 01/13/25 10:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 85.0

Method: SW846 6010D - 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		01/17/25 14:28	01/20/25 15:24	1
Calcium	9.9		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:24	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:24	1
Iron	0.20	J	0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:24	1
Manganese	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:24	1
Potassium	<2.5		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:24	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:24	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:24	1
Zinc	<0.50		0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:24	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:16	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:16	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0079	mg/Kg	☆	01/23/25 13:30	01/24/25 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	☆	01/15/25 11:12	01/15/25 14:01	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			01/15/25 10:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B22

Lab Sample ID: 500-262654-6

Date Collected: 01/13/25 10:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00093	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
1,1-Dichloroethane	<0.0019		0.0019	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
1,1-Dichloroethene	<0.0019		0.0019	0.00077	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
1,2-Dichloroethane	<0.0047		0.0047	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00089	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
2-Butanone (MEK)	<0.0047		0.0047	0.0020	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
2-Hexanone	<0.0047		0.0047	0.0028	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0033	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Acetone	<0.019		0.019	0.0078	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Benzene	<0.0019		0.0019	0.00059	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Bromodichloromethane	<0.0019		0.0019	0.00060	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Bromoform	<0.0019		0.0019	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Bromomethane	<0.0047		0.0047	0.0023	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Carbon disulfide	<0.0047		0.0047	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Carbon tetrachloride	<0.0019		0.0019	0.00063	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Chlorobenzene	<0.0019		0.0019	0.00079	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Chloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Chloroform	<0.0019		0.0019	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Chloromethane	<0.0047	*	0.0047	0.00090	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Dibromochloromethane	<0.0019		0.0019	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Ethylbenzene	<0.0019		0.0019	0.00098	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00060	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Methylene Chloride	<0.0047		0.0047	0.0020	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Styrene	<0.0019		0.0019	0.00084	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Tetrachloroethene	<0.0019		0.0019	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Toluene	<0.0019		0.0019	0.00037	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00089	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Trichloroethene	<0.0019		0.0019	0.00051	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Vinyl chloride	<0.0019	*	0.0019	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1
Xylenes, Total	<0.0037		0.0037	0.00064	mg/Kg	☆	01/14/25 17:55	01/16/25 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	01/14/25 17:55	01/16/25 14:31	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/14/25 17:55	01/16/25 14:31	1
Dibromofluoromethane (Surr)	99		75 - 126	01/14/25 17:55	01/16/25 14:31	1
Toluene-d8 (Surr)	98		75 - 124	01/14/25 17:55	01/16/25 14:31	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B22

Lab Sample ID: 500-262654-6

Date Collected: 01/13/25 10:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.4

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2-Methylnaphthalene	<0.079		0.079	0.0078	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
2-Nitrophenol	<0.39		0.39	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
4-Nitrophenol	<0.79		0.79	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Acenaphthene	<0.039		0.039	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Acenaphthylene	<0.039		0.039	0.0066	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Anthracene	<0.039		0.039	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Benzo[b]fluoranthene	<0.039		0.039	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Benzo[g,h,i]perylene	<0.039		0.039	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Butyl benzyl phthalate	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Carbazole	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Chrysene	<0.039		0.039	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Fluoranthene	<0.039		0.039	0.0091	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Hexachlorocyclopentadiene	<0.79		0.79	0.41	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B22

Lab Sample ID: 500-262654-6

Date Collected: 01/13/25 10:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.4

Method: SW846 8270E - 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	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Phenanthrene	<0.039		0.039	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1
Pyrene	<0.039		0.039	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	40		31 - 143	01/15/25 07:23	01/15/25 17:48	1
2-Fluorobiphenyl (Surr)	69		43 - 145	01/15/25 07:23	01/15/25 17:48	1
2-Fluorophenol (Surr)	67		31 - 166	01/15/25 07:23	01/15/25 17:48	1
Nitrobenzene-d5 (Surr)	69		37 - 147	01/15/25 07:23	01/15/25 17:48	1
Phenol-d5 (Surr)	66		30 - 153	01/15/25 07:23	01/15/25 17:48	1
Terphenyl-d14 (Surr)	57		42 - 157	01/15/25 07:23	01/15/25 17:48	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.40	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Arsenic	5.7		1.0	0.35	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Barium	40		1.0	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Beryllium	0.59		0.41	0.095	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Boron	20		5.1	0.47	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Cadmium	0.13	J	0.20	0.037	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Calcium	53000	B	20	3.5	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Chromium	21		1.0	0.50	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Cobalt	11		0.51	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Copper	15		1.0	0.29	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Iron	19000		20	11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Lead	9.5		0.51	0.24	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Magnesium	24000		10	5.1	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Manganese	280		1.0	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Nickel	29		1.0	0.30	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Potassium	3300		51	18	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Selenium	<1.0		1.0	0.60	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Silver	4.4		0.51	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Sodium	3200		100	15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Thallium	1.5		1.0	0.51	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Vanadium	25		0.51	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1
Zinc	50		2.0	0.89	mg/Kg	☆	01/15/25 09:06	01/16/25 00:09	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:30	01/20/25 18:08	1
Manganese	0.86		0.025	0.010	mg/L		01/17/25 14:30	01/20/25 18:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B22

Lab Sample ID: 500-262654-6

Date Collected: 01/13/25 10:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.4

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:28	1
Barium	0.14	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:28	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 15:28	1
Calcium	120		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:28	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:28	1
Iron	2.6		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:28	1
Lead	0.014		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:28	1
Manganese	0.35		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:28	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:28	1
Potassium	1.8	J	2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:28	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:28	1
Zinc	0.024	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:28	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:23	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:23	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0073	mg/Kg	✱	01/23/25 13:30	01/24/25 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	01/15/25 11:12	01/15/25 14:03	1
pH (SW846 9045D)	7.8		0.2	0.2	SU			01/15/25 11:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B22 Dup

Lab Sample ID: 500-262654-7

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00082	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
1,1-Dichloroethane	<0.0020		0.0020	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
1,1-Dichloroethene	<0.0020		0.0020	0.00083	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
1,2-Dichloroethane	<0.0050		0.0050	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00097	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
2-Hexanone	<0.0050		0.0050	0.0031	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0036	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Acetone	<0.020		0.020	0.0085	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Benzene	<0.0020		0.0020	0.00063	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Bromodichloromethane	<0.0020		0.0020	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Bromoform	<0.0020		0.0020	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Bromomethane	<0.0050		0.0050	0.0025	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Carbon disulfide	<0.0050		0.0050	0.00093	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Carbon tetrachloride	<0.0020		0.0020	0.00069	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Chlorobenzene	<0.0020		0.0020	0.00085	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Chloroethane	<0.0050		0.0050	0.0017	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Chloroform	<0.0020		0.0020	0.0014	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Chloromethane	<0.0050	*	0.0050	0.00098	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00081	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00081	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Dibromochloromethane	<0.0020		0.0020	0.00093	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Ethylbenzene	<0.0020		0.0020	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Methylene Chloride	<0.0050		0.0050	0.0022	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Styrene	<0.0020		0.0020	0.00091	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Tetrachloroethene	<0.0020		0.0020	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Toluene	<0.0020		0.0020	0.00041	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00097	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Trichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Vinyl chloride	<0.0020	*	0.0020	0.00082	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1
Xylenes, Total	<0.0040		0.0040	0.00069	mg/Kg	☆	01/14/25 17:55	01/16/25 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	01/14/25 17:55	01/16/25 14:56	1
4-Bromofluorobenzene (Surr)	97		75 - 131	01/14/25 17:55	01/16/25 14:56	1
Dibromofluoromethane (Surr)	98		75 - 126	01/14/25 17:55	01/16/25 14:56	1
Toluene-d8 (Surr)	97		75 - 124	01/14/25 17:55	01/16/25 14:56	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B22 Dup

Lab Sample ID: 500-262654-7

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.6

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2-Methylnaphthalene	<0.076		0.076	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Acenaphthylene	<0.038		0.038	0.0064	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Anthracene	<0.038		0.038	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Benzo[a]pyrene	<0.038		0.038	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Di-n-octyl phthalate	<0.38		0.38	0.26	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B22 Dup

Lab Sample ID: 500-262654-7

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.6

Method: SW846 8270E - 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	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Naphthalene	<0.038		0.038	0.0068	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Pentachlorophenol	<0.76		0.76	0.095	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Phenanthrene	<0.038		0.038	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1
Pyrene	<0.038		0.038	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		31 - 143	01/15/25 07:23	01/15/25 18:12	1
2-Fluorobiphenyl (Surr)	87		43 - 145	01/15/25 07:23	01/15/25 18:12	1
2-Fluorophenol (Surr)	90		31 - 166	01/15/25 07:23	01/15/25 18:12	1
Nitrobenzene-d5 (Surr)	87		37 - 147	01/15/25 07:23	01/15/25 18:12	1
Phenol-d5 (Surr)	89		30 - 153	01/15/25 07:23	01/15/25 18:12	1
Terphenyl-d14 (Surr)	92		42 - 157	01/15/25 07:23	01/15/25 18:12	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.42	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Arsenic	6.1		1.1	0.36	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Barium	30		1.1	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Beryllium	0.71		0.43	0.10	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Boron	20		5.3	0.50	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Cadmium	0.12 J		0.21	0.038	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Calcium	52000 B		21	3.6	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Chromium	22		1.1	0.53	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Cobalt	9.3		0.53	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Copper	16		1.1	0.30	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Iron	19000		21	11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Lead	9.9		0.53	0.25	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Magnesium	25000		11	5.3	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Manganese	260		1.1	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Nickel	29		1.1	0.31	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Potassium	3300		53	19	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Selenium	<1.1		1.1	0.63	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Silver	4.3		0.53	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Sodium	3100		110	16	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Thallium	1.4		1.1	0.53	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Vanadium	24		0.53	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1
Zinc	49		2.1	0.94	mg/Kg	☆	01/15/25 09:06	01/16/25 00:14	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.80		0.40	0.20	mg/L		01/17/25 14:30	01/20/25 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:30	01/20/25 18:13	1
Manganese	0.84		0.025	0.010	mg/L		01/17/25 14:30	01/20/25 18:13	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B22 Dup

Lab Sample ID: 500-262654-7

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 84.6

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:32	1
Barium	0.19	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:32	1
Boron	0.057	J	0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 15:32	1
Calcium	75		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:32	1
Chromium	0.018	J	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:32	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:32	1
Iron	19		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:32	1
Lead	0.030		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:32	1
Manganese	0.27		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:32	1
Nickel	0.023	J	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:32	1
Potassium	4.6		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:32	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:32	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:32	1
Zinc	0.085	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:32	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:26	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:26	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0078	mg/Kg	✱	01/23/25 13:30	01/24/25 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	01/15/25 11:12	01/15/25 14:05	1
pH (SW846 9045D)	7.8		0.2	0.2	SU			01/15/25 11:04	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B39

Lab Sample ID: 500-262654-8

Date Collected: 01/13/25 10:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
1,1-Dichloroethane	<0.0017		0.0017	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
1,1-Dichloroethene	<0.0017		0.0017	0.00071	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
1,2-Dichloroethane	<0.0043		0.0043	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00083	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
2-Hexanone	<0.0043		0.0043	0.0026	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0031	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Acetone	<0.017		0.017	0.0073	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Benzene	<0.0017		0.0017	0.00055	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Bromodichloromethane	<0.0017		0.0017	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Bromoform	<0.0017		0.0017	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Bromomethane	<0.0043		0.0043	0.0021	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Carbon disulfide	<0.0043		0.0043	0.00080	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Carbon tetrachloride	<0.0017		0.0017	0.00059	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Chlorobenzene	<0.0017		0.0017	0.00073	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Chloroethane	<0.0043		0.0043	0.0014	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Chloroform	<0.0017		0.0017	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Chloromethane	<0.0043	*-	0.0043	0.00084	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Dibromochloromethane	<0.0017		0.0017	0.00081	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Ethylbenzene	<0.0017		0.0017	0.00091	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Methylene Chloride	<0.0043		0.0043	0.0019	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Styrene	<0.0017		0.0017	0.00078	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Tetrachloroethene	<0.0017		0.0017	0.00097	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Toluene	<0.0017		0.0017	0.00035	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00066	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00083	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Trichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Vinyl chloride	<0.0017	*-	0.0017	0.00071	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1
Xylenes, Total	<0.0035		0.0035	0.00060	mg/Kg	☆	01/14/25 17:55	01/16/25 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/14/25 17:55	01/16/25 15:21	1
4-Bromofluorobenzene (Surr)	130	*3	75 - 131	01/14/25 17:55	01/16/25 15:21	1
Dibromofluoromethane (Surr)	99		75 - 126	01/14/25 17:55	01/16/25 15:21	1
Toluene-d8 (Surr)	109		75 - 124	01/14/25 17:55	01/16/25 15:21	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B39

Lab Sample ID: 500-262654-8

Date Collected: 01/13/25 10:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.7

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2-Methylnaphthalene	<0.077		0.077	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Acenaphthene	<0.038		0.038	0.0078	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Benzo[g,h,i]perylene	0.021	J	0.038	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Fluoranthene	0.017	J	0.038	0.0089	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B39

Lab Sample ID: 500-262654-8

Date Collected: 01/13/25 10:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.7

Method: SW846 8270E - 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	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Phenanthrene	0.021	J	0.038	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Phenol	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1
Pyrene	0.020	J	0.038	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		31 - 143	01/15/25 07:23	01/15/25 18:36	1
2-Fluorobiphenyl (Surr)	88		43 - 145	01/15/25 07:23	01/15/25 18:36	1
2-Fluorophenol (Surr)	88		31 - 166	01/15/25 07:23	01/15/25 18:36	1
Nitrobenzene-d5 (Surr)	87		37 - 147	01/15/25 07:23	01/15/25 18:36	1
Phenol-d5 (Surr)	90		30 - 153	01/15/25 07:23	01/15/25 18:36	1
Terphenyl-d14 (Surr)	96		42 - 157	01/15/25 07:23	01/15/25 18:36	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.43	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Arsenic	8.8		1.1	0.38	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Barium	58		1.1	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Beryllium	0.69		0.44	0.10	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Boron	17		5.5	0.52	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Cadmium	0.16	J	0.22	0.040	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Calcium	44000	B	22	3.8	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Chromium	20		1.1	0.55	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Cobalt	12		0.55	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Copper	23		1.1	0.31	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Iron	21000		22	12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Lead	19		0.55	0.26	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Magnesium	23000		11	5.5	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Manganese	360		1.1	0.16	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Nickel	34		1.1	0.32	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Potassium	3100		55	20	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Selenium	<1.1		1.1	0.65	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Silver	4.9		0.55	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Sodium	1100		110	16	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Thallium	1.9		1.1	0.55	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Vanadium	24		0.55	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1
Zinc	62		2.2	0.97	mg/Kg	☆	01/15/25 09:06	01/16/25 00:18	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.68		0.40	0.20	mg/L		01/17/25 14:30	01/20/25 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:30	01/20/25 18:18	1
Manganese	1.3		0.025	0.010	mg/L		01/17/25 14:30	01/20/25 18:18	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B39

Lab Sample ID: 500-262654-8

Date Collected: 01/13/25 10:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.7

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:37	1
Barium	0.48	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:37	1
Boron	0.065	J	0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 15:37	1
Calcium	72		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:37	1
Chromium	0.028		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:37	1
Cobalt	0.021	J	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:37	1
Iron	27		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:37	1
Lead	0.053		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:37	1
Manganese	0.59		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:37	1
Nickel	0.054		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:37	1
Potassium	7.6		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:37	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:37	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:37	1
Zinc	0.12	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:37	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:28	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:28	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0077	mg/Kg	✱	01/23/25 13:30	01/24/25 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.14	mg/Kg	✱	01/15/25 11:12	01/15/25 14:07	1
pH (SW846 9045D)	8.7		0.2	0.2	SU			01/15/25 11:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B41

Lab Sample ID: 500-262654-9

Date Collected: 01/13/25 11:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 85.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
1,1-Dichloroethane	<0.0017		0.0017	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
1,1-Dichloroethene	<0.0017		0.0017	0.00071	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00083	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
2-Hexanone	<0.0043		0.0043	0.0026	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0031	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Acetone	<0.017		0.017	0.0073	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Benzene	<0.0017		0.0017	0.00054	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Bromodichloromethane	<0.0017		0.0017	0.00055	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Bromoform	<0.0017		0.0017	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Bromomethane	<0.0043		0.0043	0.0021	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Carbon disulfide	<0.0043		0.0043	0.00080	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Carbon tetrachloride	<0.0017		0.0017	0.00059	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Chlorobenzene	<0.0017		0.0017	0.00073	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Chloroethane	<0.0043		0.0043	0.0014	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Chloroform	<0.0017		0.0017	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Chloromethane	<0.0043	*	0.0043	0.00084	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00069	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Dibromochloromethane	<0.0017		0.0017	0.00080	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Ethylbenzene	<0.0017		0.0017	0.00091	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Methylene Chloride	<0.0043		0.0043	0.0018	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Styrene	<0.0017		0.0017	0.00078	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Tetrachloroethene	<0.0017		0.0017	0.00097	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Toluene	<0.0017		0.0017	0.00035	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00083	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Trichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Vinyl chloride	<0.0017	*	0.0017	0.00071	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1
Xylenes, Total	<0.0035		0.0035	0.00059	mg/Kg	☆	01/14/25 17:55	01/16/25 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	01/14/25 17:55	01/16/25 15:46	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/14/25 17:55	01/16/25 15:46	1
Dibromofluoromethane (Surr)	98		75 - 126	01/14/25 17:55	01/16/25 15:46	1
Toluene-d8 (Surr)	98		75 - 124	01/14/25 17:55	01/16/25 15:46	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B41

Lab Sample ID: 500-262654-9

Date Collected: 01/13/25 11:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 85.3

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2,4-Dinitrophenol	<0.75		0.75	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2-Methylnaphthalene	<0.075		0.075	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Anthracene	0.011	J	0.037	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Benzo[a]anthracene	0.053		0.037	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Benzo[a]pyrene	0.068		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Benzo[b]fluoranthene	0.11		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Benzo[g,h,i]perylene	0.073		0.037	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Benzo[k]fluoranthene	0.031	J	0.037	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Chrysene	0.071		0.037	0.0098	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Fluoranthene	0.091		0.037	0.0087	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Hexachlorobenzene	<0.075		0.075	0.0072	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B41

Lab Sample ID: 500-262654-9

Date Collected: 01/13/25 11:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 85.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.061		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Naphthalene	<0.037		0.037	0.0068	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0074	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Phenanthrene	0.036	J	0.037	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1
Pyrene	0.088		0.037	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		31 - 143	01/15/25 07:23	01/15/25 22:36	1
2-Fluorobiphenyl (Surr)	89		43 - 145	01/15/25 07:23	01/15/25 22:36	1
2-Fluorophenol (Surr)	83		31 - 166	01/15/25 07:23	01/15/25 22:36	1
Nitrobenzene-d5 (Surr)	82		37 - 147	01/15/25 07:23	01/15/25 22:36	1
Phenol-d5 (Surr)	87		30 - 153	01/15/25 07:23	01/15/25 22:36	1
Terphenyl-d14 (Surr)	99		42 - 157	01/15/25 07:23	01/15/25 22:36	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Arsenic	6.8		1.0	0.35	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Barium	62		1.0	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Beryllium	0.65		0.40	0.095	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Boron	15		5.1	0.47	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Cadmium	0.24		0.20	0.036	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Calcium	58000	B	20	3.4	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Chromium	20		1.0	0.50	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Cobalt	9.6		0.51	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Copper	18		1.0	0.28	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Iron	19000		20	11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Lead	19		0.51	0.23	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Magnesium	26000		10	5.0	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Manganese	360		1.0	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Nickel	27		1.0	0.29	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Potassium	2600		51	18	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Selenium	0.61	J	1.0	0.60	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Silver	4.2		0.51	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Sodium	240		100	15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Thallium	1.7		1.0	0.50	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Vanadium	25		0.51	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1
Zinc	63		2.0	0.89	mg/Kg	☆	01/15/25 09:06	01/16/25 00:31	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:30	01/20/25 18:22	1
Manganese	0.29		0.025	0.010	mg/L		01/17/25 14:30	01/20/25 18:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B41

Lab Sample ID: 500-262654-9

Date Collected: 01/13/25 11:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 85.3

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:41	1
Barium	0.26	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:41	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 15:41	1
Calcium	47		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:41	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:41	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:41	1
Iron	2.3		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:41	1
Lead	0.020		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:41	1
Manganese	0.16		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:41	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:41	1
Potassium	1.2	J	2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:41	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:41	1
Zinc	0.050	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:41	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:31	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:31	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0074	mg/Kg	✱	01/23/25 13:30	01/24/25 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.12	mg/Kg	✱	01/16/25 10:18	01/16/25 13:46	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			01/15/25 11:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B13

Lab Sample ID: 500-262654-10

Date Collected: 01/13/25 11:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 80.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00092	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00069	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
1,1-Dichloroethane	<0.0019		0.0019	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
1,1-Dichloroethene	<0.0019		0.0019	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00089	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
2-Hexanone	<0.0046		0.0046	0.0028	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0033	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Acetone	<0.019		0.019	0.0078	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Benzene	<0.0019		0.0019	0.00058	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Bromodichloromethane	<0.0019		0.0019	0.00060	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Bromoform	<0.0019		0.0019	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Bromomethane	<0.0046		0.0046	0.0023	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Carbon disulfide	<0.0046		0.0046	0.00085	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Carbon tetrachloride	<0.0019		0.0019	0.00063	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Chlorobenzene	<0.0019		0.0019	0.00078	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Chloroethane	<0.0046		0.0046	0.0015	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Chloroform	<0.0019		0.0019	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Chloromethane	<0.0046	*	0.0046	0.00090	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00074	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Dibromochloromethane	<0.0019		0.0019	0.00086	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Ethylbenzene	<0.0019		0.0019	0.00098	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00060	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Methylene Chloride	<0.0046		0.0046	0.0020	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Styrene	<0.0019		0.0019	0.00084	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Tetrachloroethene	<0.0019		0.0019	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Toluene	<0.0019		0.0019	0.00037	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00089	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Trichloroethene	<0.0019		0.0019	0.00050	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Vinyl chloride	<0.0019	*	0.0019	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1
Xylenes, Total	<0.0037		0.0037	0.00064	mg/Kg	☆	01/14/25 17:55	01/16/25 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	01/14/25 17:55	01/16/25 16:10	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/14/25 17:55	01/16/25 16:10	1
Dibromofluoromethane (Surr)	99		75 - 126	01/14/25 17:55	01/16/25 16:10	1
Toluene-d8 (Surr)	97		75 - 124	01/14/25 17:55	01/16/25 16:10	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B13

Lab Sample ID: 500-262654-10

Date Collected: 01/13/25 11:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 80.6

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2,4-Dimethylphenol	<0.40		0.40	0.090	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2,4-Dinitrophenol	<0.81		0.81	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2-Methylnaphthalene	<0.081		0.081	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2-Nitroaniline	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
4-Chloroaniline	<0.81		0.81	0.42	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
4-Nitrophenol	<0.81		0.81	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Acenaphthene	<0.040		0.040	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Acenaphthylene	<0.040		0.040	0.0068	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Anthracene	<0.040		0.040	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Benzo[a]pyrene	<0.040		0.040	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Benzo[b]fluoranthene	<0.040		0.040	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Benzo[g,h,i]perylene	<0.040		0.040	0.0087	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Benzo[k]fluoranthene	<0.040		0.040	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Dimethyl phthalate	<0.20		0.20	0.0087	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Fluoranthene	<0.040		0.040	0.0093	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Hexachlorobenzene	<0.081		0.081	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Hexachlorocyclopentadiene	<0.81		0.81	0.43	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B13

Lab Sample ID: 500-262654-10

Date Collected: 01/13/25 11:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 80.6

Method: SW846 8270E - 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	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Isophorone	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Naphthalene	<0.040		0.040	0.0073	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Pentachlorophenol	<0.81		0.81	0.10	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Phenanthrene	<0.040		0.040	0.0087	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1
Pyrene	<0.040		0.040	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		31 - 143	01/15/25 07:23	01/15/25 19:00	1
2-Fluorobiphenyl (Surr)	89		43 - 145	01/15/25 07:23	01/15/25 19:00	1
2-Fluorophenol (Surr)	93		31 - 166	01/15/25 07:23	01/15/25 19:00	1
Nitrobenzene-d5 (Surr)	88		37 - 147	01/15/25 07:23	01/15/25 19:00	1
Phenol-d5 (Surr)	92		30 - 153	01/15/25 07:23	01/15/25 19:00	1
Terphenyl-d14 (Surr)	98		42 - 157	01/15/25 07:23	01/15/25 19:00	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.41	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Arsenic	11		1.1	0.36	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Barium	38		1.1	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Beryllium	0.42		0.42	0.099	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Boron	11		5.3	0.49	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Cadmium	0.17	J	0.21	0.038	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Calcium	120000	B	110	18	mg/Kg	☆	01/15/25 09:06	01/16/25 16:42	5
Chromium	12		1.1	0.53	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Cobalt	9.0		0.53	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Copper	21		1.1	0.30	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Iron	21000		21	11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Lead	10		2.7	1.2	mg/Kg	☆	01/15/25 09:06	01/16/25 16:42	5
Magnesium	28000		11	5.3	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Manganese	360		1.1	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Nickel	22		1.1	0.31	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Potassium	1400		53	19	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Selenium	<1.1		1.1	0.62	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Silver	4.7		0.53	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Sodium	260		110	16	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Thallium	1.8		1.1	0.53	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Vanadium	22		0.53	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1
Zinc	46		2.1	0.93	mg/Kg	☆	01/15/25 09:06	01/16/25 00:36	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:45	1
Barium	0.070	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:45	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B13

Lab Sample ID: 500-262654-10

Date Collected: 01/13/25 11:15

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 80.6

Method: SW846 6010D - 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		01/17/25 14:28	01/20/25 15:45	1
Calcium	23		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:45	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:45	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:45	1
Iron	1.2		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:45	1
Manganese	0.058		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:45	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:45	1
Potassium	0.52 J		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:45	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:45	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:45	1
Zinc	0.021 J		0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:45	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:33	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 10:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0078	mg/Kg	☆	01/23/25 13:30	01/24/25 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.14	mg/Kg	☆	01/16/25 10:18	01/16/25 13:47	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			01/15/25 11:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B12

Lab Sample ID: 500-262654-11

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 82.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00074	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00091	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00068	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
1,1-Dichloroethane	<0.0018		0.0018	0.00069	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
1,1-Dichloroethene	<0.0018		0.0018	0.00075	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
1,2-Dichloroethane	<0.0046		0.0046	0.0012	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00088	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
2-Butanone (MEK)	0.0022	J	0.0046	0.0020	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
2-Hexanone	<0.0046		0.0046	0.0028	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0032	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Acetone	0.0098	J	0.018	0.0077	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Benzene	<0.0018		0.0018	0.00057	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Bromodichloromethane	<0.0018		0.0018	0.00059	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Bromoform	<0.0018		0.0018	0.0011	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Bromomethane	<0.0046		0.0046	0.0023	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Carbon disulfide	<0.0046	*	0.0046	0.00084	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Carbon tetrachloride	<0.0018		0.0018	0.00062	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Chlorobenzene	<0.0018		0.0018	0.00077	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Chloroethane	<0.0046		0.0046	0.0015	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Chloroform	<0.0018		0.0018	0.0013	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Chloromethane	<0.0046		0.0046	0.00089	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00074	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00073	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Dibromochloromethane	<0.0018		0.0018	0.00085	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Ethylbenzene	<0.0018		0.0018	0.00096	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00059	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Methylene Chloride	<0.0046		0.0046	0.0020	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Styrene	<0.0018		0.0018	0.00082	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Tetrachloroethene	<0.0018		0.0018	0.0010	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Toluene	<0.0018		0.0018	0.00037	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00069	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00088	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Trichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Vinyl chloride	<0.0018	*	0.0018	0.00075	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1
Xylenes, Total	<0.0037		0.0037	0.00063	mg/Kg	☆	01/14/25 17:55	01/17/25 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/14/25 17:55	01/17/25 14:06	1
4-Bromofluorobenzene (Surr)	104		75 - 131	01/14/25 17:55	01/17/25 14:06	1
Dibromofluoromethane (Surr)	98		75 - 126	01/14/25 17:55	01/17/25 14:06	1
Toluene-d8 (Surr)	99		75 - 124	01/14/25 17:55	01/17/25 14:06	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B12

Lab Sample ID: 500-262654-11

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 82.5

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2,4-Dimethylphenol	<0.39		0.39	0.087	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2-Methylnaphthalene	<0.079		0.079	0.0078	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
2-Nitrophenol	<0.39		0.39	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
4-Nitrophenol	<0.79		0.79	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Acenaphthene	<0.039		0.039	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Acenaphthylene	<0.039		0.039	0.0066	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Anthracene	<0.039		0.039	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Benzo[b]fluoranthene	<0.039		0.039	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Benzo[g,h,i]perylene	0.013	J	0.039	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Butyl benzyl phthalate	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Carbazole	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Chrysene	<0.039		0.039	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Fluoranthene	0.011	J	0.039	0.0091	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Hexachlorocyclopentadiene	<0.79		0.79	0.41	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B12

Lab Sample ID: 500-262654-11

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 82.5

Method: SW846 8270E - 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	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Phenanthrene	0.0096	J	0.039	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1
Pyrene	0.013	J	0.039	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		31 - 143	01/15/25 07:23	01/15/25 23:00	1
2-Fluorobiphenyl (Surr)	79		43 - 145	01/15/25 07:23	01/15/25 23:00	1
2-Fluorophenol (Surr)	77		31 - 166	01/15/25 07:23	01/15/25 23:00	1
Nitrobenzene-d5 (Surr)	67		37 - 147	01/15/25 07:23	01/15/25 23:00	1
Phenol-d5 (Surr)	79		30 - 153	01/15/25 07:23	01/15/25 23:00	1
Terphenyl-d14 (Surr)	82		42 - 157	01/15/25 07:23	01/15/25 23:00	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.41	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Arsenic	9.2		1.0	0.36	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Barium	26		1.0	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Beryllium	0.40	J	0.42	0.098	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Boron	11		5.2	0.49	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Cadmium	0.095	J	0.21	0.038	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Calcium	60000	B	21	3.5	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Chromium	10		1.0	0.52	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Cobalt	9.3		0.52	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Copper	15		1.0	0.29	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Iron	12000		21	11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Lead	9.7		0.52	0.24	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Magnesium	30000		10	5.2	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Manganese	350		1.0	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Nickel	18		1.0	0.30	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Potassium	1600		52	19	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Selenium	<1.0		1.0	0.62	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Silver	2.8		0.52	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Sodium	840		100	15	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Thallium	1.9		1.0	0.52	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Vanadium	16		0.52	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1
Zinc	42		2.1	0.92	mg/Kg	☆	01/15/25 09:06	01/16/25 00:40	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:30	01/20/25 18:27	1
Manganese	2.1		0.025	0.010	mg/L		01/17/25 14:30	01/20/25 18:27	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B12

Lab Sample ID: 500-262654-11

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 82.5

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:50	1
Barium	0.058	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:50	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 15:50	1
Calcium	12		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:50	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:50	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:50	1
Iron	3.7		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:50	1
Lead	0.028		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:50	1
Manganese	0.19		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:50	1
Nickel	0.010	J	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:50	1
Potassium	1.1	J	2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:50	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:50	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:50	1
Zinc	0.045	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:50	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:36	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:36	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 11:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0081	mg/Kg	☆	01/23/25 13:30	01/24/25 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	☆	01/16/25 10:18	01/16/25 13:49	1
pH (SW846 9045D)	8.8		0.2	0.2	SU			01/15/25 11:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B11

Lab Sample ID: 500-262654-12

Date Collected: 01/13/25 11:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 79.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00080	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00098	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00074	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
1,1-Dichloroethane	<0.0020		0.0020	0.00074	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
1,1-Dichloroethene	<0.0020		0.0020	0.00081	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
1,2-Dichloroethane	<0.0049		0.0049	0.0013	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00094	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
2-Hexanone	<0.0049		0.0049	0.0030	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0035	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Acetone	<0.020		0.020	0.0083	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Benzene	<0.0020		0.0020	0.00062	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Bromodichloromethane	<0.0020		0.0020	0.00063	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Bromoform	<0.0020		0.0020	0.0011	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Bromomethane	<0.0049		0.0049	0.0024	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Carbon disulfide	<0.0049	*	0.0049	0.00091	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Carbon tetrachloride	<0.0020		0.0020	0.00067	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Chlorobenzene	<0.0020		0.0020	0.00083	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Chloroethane	<0.0049		0.0049	0.0016	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Chloroform	<0.0020		0.0020	0.0014	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Chloromethane	<0.0049		0.0049	0.00095	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00079	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00079	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Dibromochloromethane	<0.0020		0.0020	0.00091	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Ethylbenzene	<0.0020		0.0020	0.0010	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00064	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Methylene Chloride	<0.0049		0.0049	0.0021	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Styrene	<0.0020		0.0020	0.00089	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Tetrachloroethene	<0.0020		0.0020	0.0011	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Toluene	<0.0020		0.0020	0.00040	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00074	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00094	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Trichloroethene	<0.0020		0.0020	0.00054	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Vinyl chloride	<0.0020	*	0.0020	0.00080	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1
Xylenes, Total	<0.0039		0.0039	0.00067	mg/Kg	☆	01/14/25 17:55	01/17/25 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	01/14/25 17:55	01/17/25 14:31	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/14/25 17:55	01/17/25 14:31	1
Dibromofluoromethane (Surr)	97		75 - 126	01/14/25 17:55	01/17/25 14:31	1
Toluene-d8 (Surr)	99		75 - 124	01/14/25 17:55	01/17/25 14:31	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B11

Lab Sample ID: 500-262654-12

Date Collected: 01/13/25 11:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 79.4

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2,4-Dimethylphenol	<0.40		0.40	0.091	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2,4-Dinitrophenol	<0.82		0.82	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2-Methylnaphthalene	<0.082		0.082	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2-Nitroaniline	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
3 & 4 Methylphenol	<0.20		0.20	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
4-Chloroaniline	<0.82		0.82	0.42	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
4-Nitrophenol	<0.82		0.82	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Acenaphthene	<0.040		0.040	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Acenaphthylene	<0.040		0.040	0.0069	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Anthracene	<0.040		0.040	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Benzo[a]anthracene	<0.040		0.040	0.0086	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Benzo[a]pyrene	<0.040		0.040	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Benzo[g,h,i]perylene	<0.040		0.040	0.0088	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Diethyl phthalate	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Dimethyl phthalate	<0.20		0.20	0.0088	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Fluoranthene	<0.040		0.040	0.0094	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Hexachlorobenzene	<0.082		0.082	0.0078	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Hexachlorocyclopentadiene	<0.82		0.82	0.43	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B11

Lab Sample ID: 500-262654-12

Date Collected: 01/13/25 11:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 79.4

Method: SW846 8270E - 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	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Isophorone	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Naphthalene	<0.040		0.040	0.0073	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Pentachlorophenol	<0.82		0.82	0.10	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Phenanthrene	<0.040		0.040	0.0088	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Phenol	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1
Pyrene	0.019	J	0.040	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		31 - 143	01/15/25 07:23	01/15/25 19:24	1
2-Fluorobiphenyl (Surr)	62		43 - 145	01/15/25 07:23	01/15/25 19:24	1
2-Fluorophenol (Surr)	67		31 - 166	01/15/25 07:23	01/15/25 19:24	1
Nitrobenzene-d5 (Surr)	64		37 - 147	01/15/25 07:23	01/15/25 19:24	1
Phenol-d5 (Surr)	68		30 - 153	01/15/25 07:23	01/15/25 19:24	1
Terphenyl-d14 (Surr)	71		42 - 157	01/15/25 07:23	01/15/25 19:24	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.43	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Arsenic	2.0		1.1	0.38	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Barium	11		1.1	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Beryllium	0.12	J	0.44	0.10	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Boron	3.0	J	5.5	0.52	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Cadmium	0.21	J	0.22	0.040	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Calcium	20000	B	22	3.7	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Chromium	4.3		1.1	0.55	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Cobalt	3.4		0.55	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Copper	3.1		1.1	0.31	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Iron	5600		22	12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Lead	3.6		0.55	0.26	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Magnesium	9200		11	5.5	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Manganese	150		1.1	0.16	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Nickel	5.5		1.1	0.32	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Potassium	490		55	20	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Selenium	<1.1		1.1	0.65	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Silver	1.3		0.55	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Sodium	63	J	110	16	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Thallium	0.78	J	1.1	0.55	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Vanadium	6.4		0.55	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1
Zinc	20		2.2	0.97	mg/Kg	☆	01/15/25 09:06	01/16/25 00:45	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 15:54	1
Barium	<0.50		0.50	0.050	mg/L		01/17/25 14:28	01/20/25 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 15:54	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 15:54	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B11

Lab Sample ID: 500-262654-12

Date Collected: 01/13/25 11:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 79.4

Method: SW846 6010D - 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		01/17/25 14:28	01/20/25 15:54	1
Calcium	8.2		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:54	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:54	1
Iron	1.2		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 15:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 15:54	1
Manganese	0.011	J	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:54	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:54	1
Potassium	<2.5		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 15:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 15:54	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 15:54	1
Zinc	<0.50		0.50	0.020	mg/L		01/17/25 14:28	01/20/25 15:54	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:38	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:38	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 11:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0077	mg/Kg	⚠	01/23/25 13:30	01/24/25 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.21	J	0.27	0.14	mg/Kg	⚠	01/16/25 10:18	01/16/25 13:51	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			01/15/25 11:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B30

Lab Sample ID: 500-262654-13

Date Collected: 01/13/25 12:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 88.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00084	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00078	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
1,1-Dichloroethane	<0.0021		0.0021	0.00078	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
1,1-Dichloroethene	<0.0021		0.0021	0.00085	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
1,2-Dichloroethane	<0.0052		0.0052	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
2-Hexanone	<0.0052		0.0052	0.0032	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0037	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Acetone	<0.021		0.021	0.0087	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Benzene	<0.0021		0.0021	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Bromodichloromethane	<0.0021		0.0021	0.00067	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Bromoform	<0.0021		0.0021	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Bromomethane	<0.0052		0.0052	0.0026	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Carbon disulfide	<0.0052		0.0052	0.00096	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Carbon tetrachloride	<0.0021		0.0021	0.00071	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Chlorobenzene	<0.0021		0.0021	0.00088	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Chloroethane	<0.0052		0.0052	0.0017	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Chloroform	<0.0021		0.0021	0.0015	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Chloromethane	<0.0052	*	0.0052	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00084	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00083	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Dibromochloromethane	<0.0021		0.0021	0.00096	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Ethylbenzene	<0.0021		0.0021	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00067	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Methylene Chloride	<0.0052		0.0052	0.0022	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Styrene	<0.0021		0.0021	0.00093	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Tetrachloroethene	<0.0021		0.0021	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Toluene	<0.0021		0.0021	0.00042	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00078	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Trichloroethene	<0.0021		0.0021	0.00056	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Vinyl chloride	<0.0021	*	0.0021	0.00085	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1
Xylenes, Total	<0.0042		0.0042	0.00071	mg/Kg	☆	01/14/25 17:55	01/16/25 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/14/25 17:55	01/16/25 17:26	1
4-Bromofluorobenzene (Surr)	99		75 - 131	01/14/25 17:55	01/16/25 17:26	1
Dibromofluoromethane (Surr)	97		75 - 126	01/14/25 17:55	01/16/25 17:26	1
Toluene-d8 (Surr)	98		75 - 124	01/14/25 17:55	01/16/25 17:26	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B30

Lab Sample ID: 500-262654-13

Date Collected: 01/13/25 12:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 88.2

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2,4-Dinitrophenol	<0.75		0.75	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2-Methylnaphthalene	<0.075		0.075	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Chrysene	<0.037		0.037	0.0098	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Fluoranthene	<0.037		0.037	0.0087	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Hexachlorocyclopentadiene	<0.75		0.75	0.40	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B30

Lab Sample ID: 500-262654-13

Date Collected: 01/13/25 12:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 88.2

Method: SW846 8270E - 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	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0074	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		31 - 143	01/15/25 07:23	01/15/25 19:48	1
2-Fluorobiphenyl (Surr)	84		43 - 145	01/15/25 07:23	01/15/25 19:48	1
2-Fluorophenol (Surr)	86		31 - 166	01/15/25 07:23	01/15/25 19:48	1
Nitrobenzene-d5 (Surr)	82		37 - 147	01/15/25 07:23	01/15/25 19:48	1
Phenol-d5 (Surr)	85		30 - 153	01/15/25 07:23	01/15/25 19:48	1
Terphenyl-d14 (Surr)	101		42 - 157	01/15/25 07:23	01/15/25 19:48	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.42	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Arsenic	1.9		1.1	0.37	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Barium	4.8		1.1	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Beryllium	0.11	J	0.43	0.10	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Boron	1.1	J	5.4	0.51	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Cadmium	<0.22		0.22	0.039	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Calcium	730	B	22	3.7	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Chromium	3.4		1.1	0.54	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Cobalt	2.1		0.54	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Copper	1.7		1.1	0.30	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Iron	2500		22	11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Lead	3.1		0.54	0.25	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Magnesium	750		11	5.4	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Manganese	24		1.1	0.16	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Nickel	3.5		1.1	0.32	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Potassium	320		54	19	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Selenium	<1.1		1.1	0.64	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Silver	0.62		0.54	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Sodium	42	J	110	16	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Thallium	<1.1		1.1	0.54	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Vanadium	4.9		0.54	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1
Zinc	10		2.2	0.95	mg/Kg	☆	01/15/25 09:06	01/16/25 00:49	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 16:07	1
Barium	<0.50		0.50	0.050	mg/L		01/17/25 14:28	01/20/25 16:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 16:07	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 16:07	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B30

Lab Sample ID: 500-262654-13

Date Collected: 01/13/25 12:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 88.2

Method: SW846 6010D - 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		01/17/25 14:28	01/20/25 16:07	1
Calcium	2.9		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:07	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:07	1
Iron	1.0		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 16:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 16:07	1
Manganese	0.015	J	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:07	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:07	1
Potassium	<2.5		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:07	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 16:07	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:07	1
Zinc	<0.50		0.50	0.020	mg/L		01/17/25 14:28	01/20/25 16:07	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:41	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:41	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 11:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0074	mg/Kg	☼	01/23/25 13:30	01/24/25 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	☼	01/16/25 10:18	01/16/25 13:56	1
pH (SW846 9045D)	7.4		0.2	0.2	SU			01/15/25 11:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B10

Lab Sample ID: 500-262654-15

Date Collected: 01/13/25 12:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 90.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00087	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.0011	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00080	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
1,1-Dichloroethane	<0.0021		0.0021	0.00081	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
1,1-Dichloroethene	<0.0021		0.0021	0.00088	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
1,2-Dichloroethane	<0.0054		0.0054	0.0014	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.0010	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
2-Hexanone	<0.0054		0.0054	0.0033	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0038	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Acetone	<0.021		0.021	0.0090	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Benzene	<0.0021		0.0021	0.00067	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Bromodichloromethane	<0.0021		0.0021	0.00069	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Bromoform	<0.0021		0.0021	0.0012	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Bromomethane	<0.0054		0.0054	0.0026	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Carbon disulfide	<0.0054	*	0.0054	0.00099	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Carbon tetrachloride	<0.0021		0.0021	0.00073	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Chlorobenzene	<0.0021		0.0021	0.00090	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Chloroethane	<0.0054		0.0054	0.0018	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Chloroform	<0.0021		0.0021	0.0015	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Chloromethane	<0.0054		0.0054	0.0010	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00086	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00086	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Dibromochloromethane	<0.0021		0.0021	0.00099	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Ethylbenzene	<0.0021		0.0021	0.0011	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00069	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Methylene Chloride	<0.0054		0.0054	0.0023	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Styrene	<0.0021		0.0021	0.00096	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Tetrachloroethene	<0.0021		0.0021	0.0012	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Toluene	<0.0021		0.0021	0.00043	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00081	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.0010	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Trichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Vinyl chloride	<0.0021	*	0.0021	0.00087	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1
Xylenes, Total	<0.0043		0.0043	0.00073	mg/Kg	☆	01/14/25 17:55	01/17/25 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	01/14/25 17:55	01/17/25 15:20	1
4-Bromofluorobenzene (Surr)	96		75 - 131	01/14/25 17:55	01/17/25 15:20	1
Dibromofluoromethane (Surr)	97		75 - 126	01/14/25 17:55	01/17/25 15:20	1
Toluene-d8 (Surr)	99		75 - 124	01/14/25 17:55	01/17/25 15:20	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
1,2-Dichlorobenzene	<0.18		0.18	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
1,3-Dichlorobenzene	<0.18		0.18	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
1,4-Dichlorobenzene	<0.18		0.18	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B10

Lab Sample ID: 500-262654-15

Date Collected: 01/13/25 12:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 90.3

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2,4,6-Trichlorophenol	<0.36		0.36	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2,4-Dichlorophenol	<0.36		0.36	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2,4-Dimethylphenol	<0.36		0.36	0.082	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2,4-Dinitrophenol	<0.74		0.74	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2,4-Dinitrotoluene	<0.18		0.18	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2,6-Dinitrotoluene	<0.18		0.18	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2-Chloronaphthalene	<0.18		0.18	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2-Chlorophenol	<0.18		0.18	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2-Methylnaphthalene	<0.074		0.074	0.0073	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2-Methylphenol	<0.18		0.18	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2-Nitroaniline	<0.18		0.18	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
2-Nitrophenol	<0.36		0.36	0.025	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
3 & 4 Methylphenol	<0.18		0.18	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
3-Nitroaniline	<0.36		0.36	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.21	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.025	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
4-Chloro-3-methylphenol	<0.36		0.36	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
4-Chloroaniline	<0.74		0.74	0.38	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
4-Nitroaniline	<0.36		0.36	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
4-Nitrophenol	<0.74		0.74	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Acenaphthene	<0.036		0.036	0.0074	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Acenaphthylene	<0.036		0.036	0.0062	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Anthracene	<0.036		0.036	0.0074	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Benzo[a]pyrene	<0.036		0.036	0.035	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Benzo[b]fluoranthene	<0.036		0.036	0.035	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Benzo[g,h,i]perylene	<0.036		0.036	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Benzo[k]fluoranthene	<0.036		0.036	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Butyl benzyl phthalate	<0.18		0.18	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Carbazole	<0.18		0.18	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Chrysene	<0.036		0.036	0.0096	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Dibenzofuran	<0.18		0.18	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Diethyl phthalate	<0.18		0.18	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Dimethyl phthalate	<0.18		0.18	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Di-n-butyl phthalate	<0.18		0.18	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Di-n-octyl phthalate	<0.36		0.36	0.25	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Fluoranthene	<0.036		0.036	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Fluorene	<0.036		0.036	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Hexachlorobenzene	<0.074		0.074	0.0070	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Hexachlorobutadiene	<0.18		0.18	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Hexachlorocyclopentadiene	<0.74		0.74	0.39	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Hexachloroethane	<0.18		0.18	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B10

Lab Sample ID: 500-262654-15

Date Collected: 01/13/25 12:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 90.3

Method: SW846 8270E - 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		0.036	0.035	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Isophorone	<0.18		0.18	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Naphthalene	<0.036		0.036	0.0066	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Nitrobenzene	<0.036		0.036	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.0072	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
N-Nitrosodiphenylamine	<0.18		0.18	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Pentachlorophenol	<0.74		0.74	0.091	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Phenanthrene	<0.036		0.036	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Phenol	<0.18		0.18	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1
Pyrene	<0.036		0.036	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		31 - 143	01/15/25 07:23	01/15/25 20:36	1
2-Fluorobiphenyl (Surr)	93		43 - 145	01/15/25 07:23	01/15/25 20:36	1
2-Fluorophenol (Surr)	94		31 - 166	01/15/25 07:23	01/15/25 20:36	1
Nitrobenzene-d5 (Surr)	89		37 - 147	01/15/25 07:23	01/15/25 20:36	1
Phenol-d5 (Surr)	97		30 - 153	01/15/25 07:23	01/15/25 20:36	1
Terphenyl-d14 (Surr)	106		42 - 157	01/15/25 07:23	01/15/25 20:36	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.9		1.9	0.37	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Arsenic	1.7		0.96	0.33	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Barium	5.3		0.96	0.11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Beryllium	<0.38		0.38	0.090	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Boron	2.2 J		4.8	0.45	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Cadmium	0.067 J		0.19	0.035	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Calcium	19000 B		19	3.3	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Chromium	3.4		0.96	0.48	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Cobalt	2.8		0.48	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Copper	1.9		0.96	0.27	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Iron	4300		19	10	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Lead	2.4		0.48	0.22	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Magnesium	7600		9.6	4.8	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Manganese	100		0.96	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Nickel	4.0		0.96	0.28	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Potassium	360		48	17	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Selenium	<0.96		0.96	0.57	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Silver	0.95		0.48	0.12	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Sodium	66 J		96	14	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Thallium	0.54 J		0.96	0.48	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Vanadium	5.0		0.48	0.11	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1
Zinc	14		1.9	0.84	mg/Kg	☆	01/15/25 09:06	01/16/25 00:58	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L	—	01/17/25 14:30	01/20/25 18:54	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B10

Lab Sample ID: 500-262654-15

Date Collected: 01/13/25 12:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 90.3

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 16:16	1
Barium	<0.50		0.50	0.050	mg/L		01/17/25 14:28	01/20/25 16:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 16:16	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 16:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 16:16	1
Calcium	8.8		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:16	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:16	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:16	1
Iron	1.2		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 16:16	1
Lead	0.0092		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 16:16	1
Manganese	0.047		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:16	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:16	1
Potassium	0.60	J	2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:16	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 16:16	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:16	1
Zinc	0.030	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 16:16	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:46	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:46	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 11:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0075	J	0.017	0.0070	mg/Kg	✱	01/23/25 13:30	01/24/25 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	✱	01/16/25 10:18	01/16/25 14:03	1
pH (SW846 9045D)	8.5		0.2	0.2	SU			01/15/25 11:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B09

Lab Sample ID: 500-262654-16

Date Collected: 01/13/25 12:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 79.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00091	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00084	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
1,1-Dichloroethane	<0.0022		0.0022	0.00084	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
1,1-Dichloroethene	<0.0022		0.0022	0.00092	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
1,2-Dichloroethane	<0.0056		0.0056	0.0015	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
1,2-Dichloropropane	<0.0022		0.0022	0.00058	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
2-Hexanone	<0.0056		0.0056	0.0034	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0040	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Acetone	<0.022		0.022	0.0094	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Benzene	<0.0022		0.0022	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Bromodichloromethane	<0.0022		0.0022	0.00072	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Bromoform	<0.0022		0.0022	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Bromomethane	<0.0056		0.0056	0.0028	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Carbon disulfide	<0.0056		0.0056	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Carbon tetrachloride	<0.0022		0.0022	0.00076	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Chlorobenzene	<0.0022		0.0022	0.00094	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Chloroethane	<0.0056		0.0056	0.0018	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Chloroform	<0.0022		0.0022	0.0016	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Chloromethane	<0.0056	*	0.0056	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00090	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00090	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Dibromochloromethane	<0.0022		0.0022	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Ethylbenzene	<0.0022		0.0022	0.0012	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00072	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Methylene Chloride	<0.0056		0.0056	0.0024	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Styrene	<0.0022		0.0022	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Tetrachloroethene	<0.0022		0.0022	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Toluene	<0.0022		0.0022	0.00045	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00085	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Trichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Vinyl chloride	<0.0022	*	0.0022	0.00091	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1
Xylenes, Total	<0.0045		0.0045	0.00077	mg/Kg	☆	01/14/25 17:55	01/16/25 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	01/14/25 17:55	01/16/25 18:40	1
4-Bromofluorobenzene (Surr)	101		75 - 131	01/14/25 17:55	01/16/25 18:40	1
Dibromofluoromethane (Surr)	99		75 - 126	01/14/25 17:55	01/16/25 18:40	1
Toluene-d8 (Surr)	99		75 - 124	01/14/25 17:55	01/16/25 18:40	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B09

Lab Sample ID: 500-262654-16

Date Collected: 01/13/25 12:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 79.1

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2,4-Dimethylphenol	<0.40		0.40	0.090	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2,4-Dinitrophenol	<0.82		0.82	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2-Methylnaphthalene	<0.082		0.082	0.0081	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2-Nitroaniline	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
3 & 4 Methylphenol	<0.20		0.20	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
4-Chloroaniline	<0.82		0.82	0.42	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
4-Nitrophenol	<0.82		0.82	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Acenaphthene	<0.040		0.040	0.0082	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Acenaphthylene	<0.040		0.040	0.0069	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Anthracene	<0.040		0.040	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Benzo[a]anthracene	<0.040		0.040	0.0086	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Benzo[a]pyrene	<0.040		0.040	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Benzo[b]fluoranthene	<0.040		0.040	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Benzo[g,h,i]perylene	<0.040		0.040	0.0088	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Benzo[k]fluoranthene	<0.040		0.040	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Diethyl phthalate	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Dimethyl phthalate	<0.20		0.20	0.0088	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Fluoranthene	<0.040		0.040	0.0094	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Hexachlorobenzene	<0.082		0.082	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Hexachlorocyclopentadiene	<0.82		0.82	0.43	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B09

Lab Sample ID: 500-262654-16

Date Collected: 01/13/25 12:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 79.1

Method: SW846 8270E - 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	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Isophorone	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Naphthalene	<0.040		0.040	0.0073	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Pentachlorophenol	<0.82		0.82	0.10	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Phenanthrene	<0.040		0.040	0.0088	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Phenol	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1
Pyrene	<0.040		0.040	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		31 - 143	01/15/25 07:23	01/15/25 21:00	1
2-Fluorobiphenyl (Surr)	73		43 - 145	01/15/25 07:23	01/15/25 21:00	1
2-Fluorophenol (Surr)	76		31 - 166	01/15/25 07:23	01/15/25 21:00	1
Nitrobenzene-d5 (Surr)	71		37 - 147	01/15/25 07:23	01/15/25 21:00	1
Phenol-d5 (Surr)	77		30 - 153	01/15/25 07:23	01/15/25 21:00	1
Terphenyl-d14 (Surr)	84		42 - 157	01/15/25 07:23	01/15/25 21:00	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.44	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Arsenic	1.5		1.1	0.38	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Barium	4.1		1.1	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Beryllium	<0.45		0.45	0.10	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Boron	2.2 J		5.6	0.52	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Cadmium	0.087 J		0.22	0.040	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Calcium	14000 B		22	3.8	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Chromium	3.3		1.1	0.56	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Cobalt	3.0		0.56	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Copper	2.6		1.1	0.31	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Iron	4500		22	12	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Lead	2.8		0.56	0.26	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Magnesium	8400		11	5.6	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Manganese	86		1.1	0.16	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Nickel	4.5		1.1	0.33	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Potassium	400		56	20	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Selenium	<1.1		1.1	0.66	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Silver	1.0		0.56	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Sodium	74 J		110	17	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Thallium	<1.1		1.1	0.56	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Vanadium	5.8		0.56	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1
Zinc	14		2.2	0.99	mg/Kg	☆	01/15/25 09:06	01/16/25 01:02	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 16:20	1
Barium	<0.50		0.50	0.050	mg/L		01/17/25 14:28	01/20/25 16:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 16:20	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 16:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B09

Lab Sample ID: 500-262654-16

Date Collected: 01/13/25 12:45

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 79.1

Method: SW846 6010D - 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		01/17/25 14:28	01/20/25 16:20	1
Calcium	4.4		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:20	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:20	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:20	1
Iron	1.3		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 16:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 16:20	1
Manganese	0.027		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:20	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:20	1
Potassium	<2.5		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:20	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 16:20	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:20	1
Zinc	<0.50		0.50	0.020	mg/L		01/17/25 14:28	01/20/25 16:20	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:53	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:53	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 11:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0078	mg/Kg	✱	01/23/25 13:30	01/24/25 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.30		0.30	0.15	mg/Kg	✱	01/16/25 10:18	01/16/25 14:05	1
pH (SW846 9045D)	7.7		0.2	0.2	SU			01/15/25 11:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B09 Dup

Lab Sample ID: 500-262654-17

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 80.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.067		0.067	0.030	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
1,1,2,2-Tetrachloroethane	<0.067		0.067	0.043	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
1,1,2-Trichloroethane	<0.067		0.067	0.049	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
1,1-Dichloroethane	<0.067		0.067	0.024	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
1,1-Dichloroethene	<0.067		0.067	0.032	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
1,2-Dichloroethane	<0.067		0.067	0.039	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
1,2-Dichloropropane	<0.067		0.067	0.025	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
1,3-Dichloropropene, Total	<0.067		0.067	0.042	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
2-Butanone (MEK)	<0.34		0.34	0.21	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
2-Hexanone	<0.34	*-	0.34	0.20	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
4-Methyl-2-pentanone (MIBK)	<0.34	*-	0.34	0.18	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Acetone	<0.67		0.67	0.49	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Benzene	<0.017		0.017	0.0082	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Bromodichloromethane	<0.067		0.067	0.038	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Bromoform	<0.067		0.067	0.064	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Bromomethane	<0.20		0.20	0.12	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Carbon disulfide	<0.13		0.13	0.072	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Carbon tetrachloride	<0.067		0.067	0.028	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Chlorobenzene	<0.067		0.067	0.028	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Chloroethane	<0.34		0.34	0.032	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Chloroform	<0.13		0.13	0.062	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Chloromethane	<0.34		0.34	0.053	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
cis-1,2-Dichloroethene	<0.067		0.067	0.028	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
cis-1,3-Dichloropropene	<0.067		0.067	0.035	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Dibromochloromethane	<0.067		0.067	0.056	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Ethylbenzene	<0.017		0.017	0.012	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Methyl tert-butyl ether	<0.067		0.067	0.029	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Methylene Chloride	0.30	J	0.34	0.14	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Styrene	<0.067		0.067	0.021	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Tetrachloroethene	<0.067		0.067	0.026	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Toluene	0.021		0.017	0.014	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
trans-1,2-Dichloroethene	<0.067		0.067	0.029	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
trans-1,3-Dichloropropene	<0.067		0.067	0.042	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Trichloroethene	<0.034		0.034	0.0099	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Vinyl chloride	<0.067		0.067	0.031	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50
Xylenes, Total	<0.034		0.034	0.016	mg/Kg	☆	01/13/25 13:00	01/20/25 16:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 126	01/13/25 13:00	01/20/25 16:11	50
4-Bromofluorobenzene (Surr)	93		72 - 124	01/13/25 13:00	01/20/25 16:11	50
Dibromofluoromethane (Surr)	108		75 - 120	01/13/25 13:00	01/20/25 16:11	50
Toluene-d8 (Surr)	98		75 - 120	01/13/25 13:00	01/20/25 16:11	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B09 Dup

Lab Sample ID: 500-262654-17

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 80.3

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2-Methylnaphthalene	<0.079		0.079	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
4-Nitrophenol	<0.79		0.79	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Acenaphthene	<0.039		0.039	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Acenaphthylene	<0.039		0.039	0.0067	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Anthracene	<0.039		0.039	0.0080	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Benzo[b]fluoranthene	<0.039		0.039	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Benzo[g,h,i]perylene	<0.039		0.039	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Chrysene	<0.039		0.039	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Fluoranthene	<0.039		0.039	0.0091	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Hexachlorocyclopentadiene	<0.79		0.79	0.42	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B09 Dup

Lab Sample ID: 500-262654-17

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 80.3

Method: SW846 8270E - 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	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0078	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Phenanthrene	<0.039		0.039	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1
Pyrene	<0.039		0.039	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		31 - 143	01/15/25 07:23	01/15/25 21:24	1
2-Fluorobiphenyl (Surr)	80		43 - 145	01/15/25 07:23	01/15/25 21:24	1
2-Fluorophenol (Surr)	86		31 - 166	01/15/25 07:23	01/15/25 21:24	1
Nitrobenzene-d5 (Surr)	83		37 - 147	01/15/25 07:23	01/15/25 21:24	1
Phenol-d5 (Surr)	86		30 - 153	01/15/25 07:23	01/15/25 21:24	1
Terphenyl-d14 (Surr)	91		42 - 157	01/15/25 07:23	01/15/25 21:24	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.43	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Arsenic	1.5		1.1	0.38	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Barium	5.1		1.1	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Beryllium	<0.44		0.44	0.10	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Boron	2.0	J	5.5	0.51	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Cadmium	0.088	J	0.22	0.040	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Calcium	13000	B	22	3.7	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Chromium	3.5		1.1	0.55	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Cobalt	2.6		0.55	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Copper	2.3		1.1	0.31	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Iron	3900		22	11	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Lead	2.6		0.55	0.25	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Magnesium	7500		11	5.5	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Manganese	80		1.1	0.16	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Nickel	4.0		1.1	0.32	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Potassium	370		55	20	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Selenium	<1.1		1.1	0.65	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Silver	0.89		0.55	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Sodium	84	J	110	16	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Thallium	<1.1		1.1	0.55	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Vanadium	5.1		0.55	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1
Zinc	15		2.2	0.97	mg/Kg	☆	01/15/25 09:06	01/16/25 01:07	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 16:25	1
Barium	<0.50		0.50	0.050	mg/L		01/17/25 14:28	01/20/25 16:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 16:25	1
Boron	<0.10		0.10	0.050	mg/L		01/17/25 14:28	01/20/25 16:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B09 Dup

Lab Sample ID: 500-262654-17

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 80.3

Method: SW846 6010D - 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		01/17/25 14:28	01/20/25 16:25	1
Calcium	3.8		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:25	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:25	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:25	1
Iron	1.9		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 16:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 16:25	1
Manganese	0.016	J	0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:25	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:25	1
Potassium	0.53	J	2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:25	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 16:25	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:25	1
Zinc	0.035	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 16:25	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:56	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:56	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 11:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0079	mg/Kg	⚠	01/23/25 13:30	01/24/25 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	⚠	01/16/25 10:18	01/16/25 14:06	1
pH (SW846 9045D)	7.4		0.2	0.2	SU			01/15/25 11:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B40

Lab Sample ID: 500-262654-18

Date Collected: 01/13/25 13:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00063	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00077	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00058	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
1,1-Dichloroethane	<0.0016		0.0016	0.00058	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
1,1-Dichloroethene	<0.0016		0.0016	0.00064	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
1,2-Dichloroethane	<0.0039		0.0039	0.0010	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00074	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
2-Hexanone	<0.0039		0.0039	0.0024	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0028	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Acetone	<0.016		0.016	0.0065	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Benzene	<0.0016		0.0016	0.00049	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Bromodichloromethane	<0.0016		0.0016	0.00050	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Bromoform	<0.0016		0.0016	0.00090	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Bromomethane	<0.0039		0.0039	0.0019	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Carbon disulfide	<0.0039		0.0039	0.00071	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Carbon tetrachloride	<0.0016		0.0016	0.00053	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Chlorobenzene	<0.0016		0.0016	0.00065	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Chloroethane	<0.0039		0.0039	0.0013	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Chloroform	<0.0016		0.0016	0.0011	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Chloromethane	<0.0039	*	0.0039	0.00075	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00063	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00062	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Dibromochloromethane	<0.0016		0.0016	0.00072	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Ethylbenzene	<0.0016		0.0016	0.00082	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00050	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Methylene Chloride	<0.0039		0.0039	0.0017	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Styrene	<0.0016		0.0016	0.00070	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Tetrachloroethene	<0.0016		0.0016	0.00087	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Toluene	<0.0016		0.0016	0.00031	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00059	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00074	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Trichloroethene	<0.0016		0.0016	0.00042	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Vinyl chloride	<0.0016	*	0.0016	0.00063	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1
Xylenes, Total	<0.0031		0.0031	0.00053	mg/Kg	☆	01/14/25 17:55	01/16/25 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/14/25 17:55	01/16/25 19:30	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/14/25 17:55	01/16/25 19:30	1
Dibromofluoromethane (Surr)	97		75 - 126	01/14/25 17:55	01/16/25 19:30	1
Toluene-d8 (Surr)	99		75 - 124	01/14/25 17:55	01/16/25 19:30	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B40

Lab Sample ID: 500-262654-18

Date Collected: 01/13/25 13:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.4

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2,4-Dimethylphenol	<0.39		0.39	0.087	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2-Methylnaphthalene	0.013	J	0.079	0.0078	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
2-Nitrophenol	<0.39		0.39	0.026	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
3 & 4 Methylphenol	<0.20		0.20	0.028	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
4-Nitrophenol	<0.79		0.79	0.14	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Acenaphthene	<0.039		0.039	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Acenaphthylene	<0.039		0.039	0.0066	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Anthracene	0.015	J	0.039	0.0079	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Benzo[a]anthracene	0.071		0.039	0.0083	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Benzo[a]pyrene	0.068		0.039	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Benzo[b]fluoranthene	0.11		0.039	0.037	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Benzo[g,h,i]perylene	0.067		0.039	0.0084	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Benzo[k]fluoranthene	0.039		0.039	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Butyl benzyl phthalate	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Carbazole	<0.20		0.20	0.015	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Chrysene	0.087		0.039	0.010	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Fluoranthene	0.11		0.039	0.0090	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Hexachlorocyclopentadiene	<0.79		0.79	0.41	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Hexachloroethane	<0.20		0.20	0.019	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B40

Lab Sample ID: 500-262654-18

Date Collected: 01/13/25 13:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.054		0.039	0.038	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Naphthalene	<0.039		0.039	0.0070	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0077	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Pentachlorophenol	<0.79		0.79	0.097	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Phenanthrene	0.080		0.039	0.0085	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1
Pyrene	0.12		0.039	0.011	mg/Kg	☆	01/15/25 07:23	01/15/25 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		31 - 143	01/15/25 07:23	01/15/25 23:24	1
2-Fluorobiphenyl (Surr)	92		43 - 145	01/15/25 07:23	01/15/25 23:24	1
2-Fluorophenol (Surr)	88		31 - 166	01/15/25 07:23	01/15/25 23:24	1
Nitrobenzene-d5 (Surr)	86		37 - 147	01/15/25 07:23	01/15/25 23:24	1
Phenol-d5 (Surr)	89		30 - 153	01/15/25 07:23	01/15/25 23:24	1
Terphenyl-d14 (Surr)	96		42 - 157	01/15/25 07:23	01/15/25 23:24	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.45	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Arsenic	6.9		1.2	0.39	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Barium	69		1.2	0.13	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Beryllium	0.74		0.46	0.11	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Boron	19		5.8	0.54	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Cadmium	0.32		0.23	0.041	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Calcium	42000	B	23	3.9	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Chromium	21		1.2	0.57	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Cobalt	11		0.58	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Copper	21		1.2	0.32	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Iron	18000		23	12	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Lead	57		0.58	0.27	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Magnesium	20000		12	5.7	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Manganese	490		1.2	0.17	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Nickel	29		1.2	0.34	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Potassium	2800		58	20	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Selenium	<1.2		1.2	0.68	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Silver	4.1		0.58	0.15	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Sodium	490		120	17	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Thallium	2.6		1.2	0.58	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Vanadium	25		0.58	0.14	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1
Zinc	80		2.3	1.0	mg/Kg	☆	01/15/25 09:06	01/16/25 01:11	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/17/25 14:30	01/20/25 19:07	1
Manganese	0.74		0.025	0.010	mg/L		01/17/25 14:30	01/20/25 19:07	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Client Sample ID: 4231-1-B40

Lab Sample ID: 500-262654-18

Date Collected: 01/13/25 13:30

Matrix: Solid

Date Received: 01/14/25 12:05

Percent Solids: 83.4

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/17/25 14:28	01/20/25 16:29	1
Barium	0.24	J	0.50	0.050	mg/L		01/17/25 14:28	01/20/25 16:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/17/25 14:28	01/20/25 16:29	1
Boron	0.093	J	0.10	0.050	mg/L		01/17/25 14:28	01/20/25 16:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/17/25 14:28	01/20/25 16:29	1
Calcium	50		2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:29	1
Chromium	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:29	1
Cobalt	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:29	1
Iron	2.3		0.40	0.20	mg/L		01/17/25 14:28	01/20/25 16:29	1
Lead	0.047		0.0075	0.0075	mg/L		01/17/25 14:28	01/20/25 16:29	1
Manganese	0.20		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:29	1
Nickel	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:29	1
Potassium	1.5	J	2.5	0.50	mg/L		01/17/25 14:28	01/20/25 16:29	1
Selenium	<0.050		0.050	0.020	mg/L		01/17/25 14:28	01/20/25 16:29	1
Silver	<0.025		0.025	0.010	mg/L		01/17/25 14:28	01/20/25 16:29	1
Zinc	0.18	J	0.50	0.020	mg/L		01/17/25 14:28	01/20/25 16:29	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0029	J	0.0060	0.0013	mg/L		01/17/25 14:28	01/20/25 23:58	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/17/25 14:28	01/20/25 23:58	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/25 11:30	01/22/25 11:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0079	mg/Kg	✧	01/23/25 13:30	01/24/25 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	✧	01/16/25 10:18	01/16/25 14:08	1
pH (SW846 9045D)	8.8		0.2	0.2	SU			01/15/25 11:33	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

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

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262654-1

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 - AE8-040A

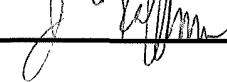
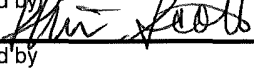
Job ID: 500-262654-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com & datamanagement@andrews-eng.com					 500-262654 COC					Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com					Project Name <u>AES-040A</u> Project No <u>PTB/wo#195-002/40A</u> TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ☐ Other Sampler: <u>PTF/CAD</u>					COC No <u>1</u> of <u>2</u> Lab Job No <u>500-262654</u> Sample Temp <u>19-70.3/43-73.9</u> Matrix Key: W Water S Soil SL Sludge S Sediment L Leachate DW Drinking Water OL Oil O Other				
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide										ANALYSES										Comments				
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	4231-1-B36	01/13/25	0900	S	X	X					X	X	X	X	X									
2	4231-1-B37		0915	S																				
3	4231-1-B38		0930	S																				
4	4231-1-B23		0945	S																				
5	4231-1-B24		1000	S																				
6	4231-1-B22		1015	S																				
7	4231-1-B22-DUP		1030	S																				
8	4231-1-B39		1045	S																				
9	4231-1-B41		1100	S																				
10	4231-1-B13		1115	S																				
11	4231-1-B12		1130	S																				
12	4231-1-B11		1145	S	✓	✓					✓	✓	✓	✓	✓									
Relinquished by 					Date/Time <u>01/14/25 0950</u>					Received by 					Date/Time <u>1/14/25 0958</u>									
Relinquished by 					Date/Time <u>1/14/25 1205</u>					Received by 					Date/Time <u>1/14/25 1205</u>									
Relinquished by					Date/Time					Received by					Date/Time									

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 & datamanagement@andrews-eng.com					Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com					Project Name <u>AES-040A</u> Project No <u>PTB/WO#195-002/40A</u> TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ☐ Other Sampler: <u>PTF/UCD</u>					COC No <u>2</u> of <u>2</u> Lab Job No <u>900-262654</u> Sample Temp						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter *** 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				
13	4231-1-B30	01/13/25	1200	S	X	X					X	X	X	X	X						
14	4231-1-B32		1215	S	X	X					X	X	X	X	X						
15	4231-1-B10		1230	S	X	X					X	X	X	X	X						
16	4231-1-B09		1245	S	X	X					X	X	X	X	X						
17	4231-1-B09 Dup		1300	S	X	X					X	X	X	X	X						
18	4231-1-B40		1330	S	X	X					X	X	X	X	X						
19	4231-1-B42		1400	S	X	X					X	X	X	X	X						
	Trip blank #1			S	X																
Relinquished by <u>[Signature]</u>					Date/Time <u>01/14/25 0950</u>					Received by <u>[Signature]</u>					Date/Time <u>1/14/25 0950</u>						
Relinquished by <u>[Signature]</u>					Date/Time <u>1/14/25 1105</u>					Received by <u>[Signature]</u>					Date/Time <u>1/14/25 1205</u>						
Relinquished by:					Date/Time					Received by					Date/Time						

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 1/31/2025 4:11:05 PM Revision 1

JOB DESCRIPTION

IDOT - AE8-040A

JOB NUMBER

500-262789-1

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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Authorized for release by
Jodie Bracken, Project Manager I
Joann.Bracken@et.eurofinsus.com
(708)534-5200

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Revision 1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B08

Lab Sample ID: 500-262789-1

Date Collected: 01/15/25 09:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 88.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00090	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00083	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
1,1-Dichloroethane	<0.0022		0.0022	0.00083	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
1,1-Dichloroethene	<0.0022		0.0022	0.00091	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
1,2-Dichloroethane	<0.0055		0.0055	0.0014	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
1,2-Dichloropropane	<0.0022		0.0022	0.00057	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
2-Hexanone	<0.0055		0.0055	0.0034	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0039	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Acetone	<0.022		0.022	0.0093	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Benzene	<0.0022		0.0022	0.00070	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Bromodichloromethane	<0.0022		0.0022	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Bromoform	<0.0022		0.0022	0.0013	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Bromomethane	<0.0055		0.0055	0.0027	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Carbon disulfide	<0.0055		0.0055	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Carbon tetrachloride	<0.0022		0.0022	0.00075	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Chlorobenzene	<0.0022		0.0022	0.00093	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Chloroethane	<0.0055		0.0055	0.0018	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Chloroform	<0.0022		0.0022	0.0016	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Chloromethane	<0.0055		0.0055	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00089	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00089	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Dibromochloromethane	<0.0022		0.0022	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Ethylbenzene	<0.0022		0.0022	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Methylene Chloride	<0.0055		0.0055	0.0024	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Styrene	<0.0022		0.0022	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Tetrachloroethene	<0.0022		0.0022	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Toluene	<0.0022		0.0022	0.00045	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00084	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Trichloroethene	<0.0022		0.0022	0.00060	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Vinyl chloride	<0.0022		0.0022	0.00090	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1
Xylenes, Total	<0.0044		0.0044	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/16/25 18:15	01/17/25 15:46	1
4-Bromofluorobenzene (Surr)	101		75 - 131	01/16/25 18:15	01/17/25 15:46	1
Dibromofluoromethane (Surr)	100		75 - 126	01/16/25 18:15	01/17/25 15:46	1
Toluene-d8 (Surr)	100		75 - 124	01/16/25 18:15	01/17/25 15:46	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.28		0.28	0.040	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
1,2-Dichlorobenzene	<0.28		0.28	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
1,3-Dichlorobenzene	<0.28		0.28	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
1,4-Dichlorobenzene	<0.28		0.28	0.026	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2,2'-oxybis[1-chloropropane]	<0.28		0.28	0.040	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1

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Client Sample Results

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Job ID: 500-262789-1

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Date Collected: 01/15/25 09:00

Matrix: Solid

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Percent Solids: 88.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.55		0.55	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2,4,6-Trichlorophenol	<0.55		0.55	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2,4-Dichlorophenol	<0.55		0.55	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2,4-Dimethylphenol	<0.55		0.55	0.12	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2,4-Dinitrophenol	<1.1		1.1	0.32	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2,4-Dinitrotoluene	<0.28		0.28	0.032	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2,6-Dinitrotoluene	<0.28		0.28	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2-Chloronaphthalene	<0.28		0.28	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2-Chlorophenol	<0.28		0.28	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2-Methylnaphthalene	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2-Methylphenol	<0.28		0.28	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2-Nitroaniline	<0.28		0.28	0.030	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
2-Nitrophenol	<0.55		0.55	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
3 & 4 Methylphenol	<0.28		0.28	0.041	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
3,3'-Dichlorobenzidine	<0.28		0.28	0.045	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
3-Nitroaniline	<0.55		0.55	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
4,6-Dinitro-2-methylphenol	<1.1		1.1	0.31	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
4-Bromophenyl phenyl ether	<0.28		0.28	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
4-Chloro-3-methylphenol	<0.55		0.55	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
4-Chloroaniline	<1.1		1.1	0.58	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
4-Chlorophenyl phenyl ether	<0.28		0.28	0.073	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
4-Nitroaniline	<0.55		0.55	0.041	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
4-Nitrophenol	<1.1		1.1	0.21	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Acenaphthene	<0.055		0.055	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Acenaphthylene	<0.055		0.055	0.0094	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Anthracene	<0.055		0.055	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Benzo[a]anthracene	<0.055		0.055	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Benzo[a]pyrene	<0.055		0.055	0.054	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Benzo[b]fluoranthene	<0.055		0.055	0.053	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Benzo[g,h,i]perylene	<0.055		0.055	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Benzo[k]fluoranthene	<0.055		0.055	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Bis(2-chloroethoxy)methane	<0.28		0.28	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Bis(2-chloroethyl)ether	<0.28		0.28	0.026	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Bis(2-ethylhexyl) phthalate	<0.28		0.28	0.22	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Butyl benzyl phthalate	<0.28		0.28	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Carbazole	<0.28		0.28	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Chrysene	<0.055		0.055	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Dibenz(a,h)anthracene	<0.055		0.055	0.055	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Dibenzofuran	<0.28		0.28	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Diethyl phthalate	<0.28		0.28	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Dimethyl phthalate	<0.28		0.28	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Di-n-butyl phthalate	<0.28		0.28	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Di-n-octyl phthalate	<0.55		0.55	0.39	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Fluoranthene	<0.055		0.055	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Fluorene	<0.055		0.055	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Hexachlorobenzene	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Hexachlorobutadiene	<0.28		0.28	0.031	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Hexachlorocyclopentadiene	<1.1		1.1	0.59	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Hexachloroethane	<0.28		0.28	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

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Lab Sample ID: 500-262789-1

Date Collected: 01/15/25 09:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 88.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.055		0.055	0.054	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Isophorone	<0.28		0.28	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Naphthalene	<0.055		0.055	0.010	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Nitrobenzene	<0.055		0.055	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
N-Nitrosodi-n-propylamine	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
N-Nitrosodiphenylamine	<0.28		0.28	0.033	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Pentachlorophenol	<1.1		1.1	0.14	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Phenanthrene	<0.055		0.055	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Phenol	<0.28		0.28	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1
Pyrene	<0.055		0.055	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		31 - 143	01/17/25 14:34	01/20/25 11:56	1
2-Fluorobiphenyl (Surr)	79		43 - 145	01/17/25 14:34	01/20/25 11:56	1
2-Fluorophenol (Surr)	84		31 - 166	01/17/25 14:34	01/20/25 11:56	1
Nitrobenzene-d5 (Surr)	79		37 - 147	01/17/25 14:34	01/20/25 11:56	1
Phenol-d5 (Surr)	84		30 - 153	01/17/25 14:34	01/20/25 11:56	1
Terphenyl-d14 (Surr)	91		42 - 157	01/17/25 14:34	01/20/25 11:56	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Arsenic	2.9		1.0	0.34	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Barium	6.3		1.0	0.11	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Beryllium	<0.40		0.40	0.093	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Boron	1.0 J		5.0	0.46	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Cadmium	0.062 J		0.20	0.036	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Calcium	12000 B		20	3.4	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Chromium	3.7		1.0	0.49	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Cobalt	2.7		0.50	0.13	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Copper	1.7		1.0	0.28	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Iron	4000		20	10	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Lead	2.8		0.50	0.23	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Magnesium	7000 B		10	4.9	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Manganese	82		1.0	0.14	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Nickel	3.7		1.0	0.29	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Potassium	330		50	18	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Selenium	<1.0		1.0	0.59	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Silver	<0.50		0.50	0.13	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Sodium	240		100	15	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Thallium	<1.0		1.0	0.50	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Vanadium	7.1		0.50	0.12	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1
Zinc	17		2.0	0.87	mg/Kg	☆	01/17/25 16:49	01/20/25 13:27	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.1		0.40	0.20	mg/L		01/20/25 08:44	01/20/25 23:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/25 08:44	01/20/25 23:17	1
Manganese	1.3		0.025	0.010	mg/L		01/20/25 08:44	01/20/25 23:17	1

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Matrix: Solid

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Percent Solids: 88.8

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.014	J	0.050	0.010	mg/L		01/20/25 08:46	01/21/25 01:33	1
Barium	<0.50		0.50	0.050	mg/L		01/20/25 08:46	01/21/25 01:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 01:33	1
Boron	<0.10		0.10	0.050	mg/L		01/20/25 08:46	01/21/25 01:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 01:33	1
Calcium	5.1		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 01:33	1
Chromium	0.011	J	0.025	0.010	mg/L		01/20/25 08:46	01/21/25 01:33	1
Cobalt	0.010	J	0.025	0.010	mg/L		01/20/25 08:46	01/21/25 01:33	1
Iron	12		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 01:33	1
Lead	0.017		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 01:33	1
Manganese	0.20		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 01:33	1
Nickel	0.010	J	0.025	0.010	mg/L		01/20/25 08:46	01/21/25 01:33	1
Potassium	2.0	J	2.5	0.50	mg/L		01/20/25 08:46	01/21/25 01:33	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 01:33	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 01:33	1
Zinc	0.056	J	0.50	0.020	mg/L		01/20/25 08:46	01/21/25 14:13	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0025	J	0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 13:42	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 13:42	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0073	mg/Kg	✱	01/24/25 15:00	01/27/25 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	✱	01/19/25 11:13	01/19/25 12:53	1
pH (SW846 9045D)	8.8		0.2	0.2	SU			01/17/25 12:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B07

Lab Sample ID: 500-262789-2

Date Collected: 01/15/25 09:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 78.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00084	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00078	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
1,1-Dichloroethane	<0.0021		0.0021	0.00078	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
1,1-Dichloroethene	<0.0021		0.0021	0.00085	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
1,2-Dichloroethane	<0.0052		0.0052	0.0013	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
2-Butanone (MEK)	0.0056		0.0052	0.0023	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
2-Hexanone	<0.0052		0.0052	0.0032	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0037	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Acetone	0.023		0.021	0.0087	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Benzene	<0.0021		0.0021	0.00065	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Bromodichloromethane	<0.0021		0.0021	0.00067	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Bromoform	<0.0021		0.0021	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Bromomethane	<0.0052		0.0052	0.0026	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Carbon disulfide	<0.0052		0.0052	0.00096	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Carbon tetrachloride	<0.0021		0.0021	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Chlorobenzene	<0.0021		0.0021	0.00088	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Chloroethane	<0.0052		0.0052	0.0017	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Chloroform	<0.0021		0.0021	0.0015	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Chloromethane	<0.0052		0.0052	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00084	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00083	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Dibromochloromethane	<0.0021		0.0021	0.00096	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Ethylbenzene	<0.0021		0.0021	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00067	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Methylene Chloride	<0.0052		0.0052	0.0022	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Styrene	<0.0021		0.0021	0.00093	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Tetrachloroethene	<0.0021		0.0021	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Toluene	<0.0021		0.0021	0.00042	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00078	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Trichloroethene	<0.0021		0.0021	0.00056	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Vinyl chloride	<0.0021		0.0021	0.00085	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1
Xylenes, Total	<0.0042		0.0042	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	01/16/25 18:15	01/17/25 16:11	1
4-Bromofluorobenzene (Surr)	106		75 - 131	01/16/25 18:15	01/17/25 16:11	1
Dibromofluoromethane (Surr)	101		75 - 126	01/16/25 18:15	01/17/25 16:11	1
Toluene-d8 (Surr)	100		75 - 124	01/16/25 18:15	01/17/25 16:11	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.31		0.31	0.044	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
1,2-Dichlorobenzene	<0.31		0.31	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
1,3-Dichlorobenzene	<0.31		0.31	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
1,4-Dichlorobenzene	<0.31		0.31	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2,2'-oxybis[1-chloropropane]	<0.31		0.31	0.044	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B07

Lab Sample ID: 500-262789-2

Date Collected: 01/15/25 09:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 78.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.61		0.61	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2,4,6-Trichlorophenol	<0.61		0.61	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2,4-Dichlorophenol	<0.61		0.61	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2,4-Dimethylphenol	<0.61		0.61	0.14	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2,4-Dinitrophenol	<1.2		1.2	0.35	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2,4-Dinitrotoluene	<0.31		0.31	0.035	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2,6-Dinitrotoluene	<0.31		0.31	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2-Chloronaphthalene	<0.31		0.31	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2-Chlorophenol	<0.31		0.31	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2-Methylnaphthalene	0.063	J	0.12	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2-Methylphenol	<0.31		0.31	0.032	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2-Nitroaniline	<0.31		0.31	0.033	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
2-Nitrophenol	<0.61		0.61	0.041	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
3 & 4 Methylphenol	<0.31		0.31	0.045	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
3,3'-Dichlorobenzidine	<0.31		0.31	0.050	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
3-Nitroaniline	<0.61		0.61	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
4,6-Dinitro-2-methylphenol	<1.2		1.2	0.34	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
4-Bromophenyl phenyl ether	<0.31		0.31	0.042	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
4-Chloro-3-methylphenol	<0.61		0.61	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
4-Chloroaniline	<1.2		1.2	0.64	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
4-Chlorophenyl phenyl ether	<0.31		0.31	0.080	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
4-Nitroaniline	<0.61		0.61	0.045	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
4-Nitrophenol	<1.2		1.2	0.23	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Acenaphthene	<0.061		0.061	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Acenaphthylene	<0.061		0.061	0.010	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Anthracene	<0.061		0.061	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Benzo[a]anthracene	0.039	J	0.061	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Benzo[a]pyrene	<0.061		0.061	0.059	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Benzo[b]fluoranthene	0.060	J	0.061	0.058	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Benzo[g,h,i]perylene	0.031	J	0.061	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Benzo[k]fluoranthene	0.023	J	0.061	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Bis(2-chloroethoxy)methane	<0.31		0.31	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Bis(2-chloroethyl)ether	<0.31		0.31	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Bis(2-ethylhexyl) phthalate	<0.31		0.31	0.24	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Butyl benzyl phthalate	<0.31		0.31	0.030	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Carbazole	<0.31		0.31	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Chrysene	0.055	J	0.061	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Dibenz(a,h)anthracene	<0.061		0.061	0.061	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Dibenzofuran	<0.31		0.31	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Diethyl phthalate	<0.31		0.31	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Dimethyl phthalate	<0.31		0.31	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Di-n-butyl phthalate	<0.31		0.31	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Di-n-octyl phthalate	<0.61		0.61	0.43	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Fluoranthene	0.081		0.061	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Fluorene	<0.061		0.061	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Hexachlorobenzene	<0.12		0.12	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Hexachlorobutadiene	<0.31		0.31	0.034	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Hexachlorocyclopentadiene	<1.2		1.2	0.65	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Hexachloroethane	<0.31		0.31	0.031	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B07

Lab Sample ID: 500-262789-2

Date Collected: 01/15/25 09:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 78.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.061		0.061	0.060	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Isophorone	<0.31		0.31	0.032	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Naphthalene	0.029	J	0.061	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Nitrobenzene	<0.061		0.061	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
N-Nitrosodi-n-propylamine	<0.12		0.12	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
N-Nitrosodiphenylamine	<0.31		0.31	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Pentachlorophenol	<1.2		1.2	0.15	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Phenanthrene	0.081		0.061	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Phenol	<0.31		0.31	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1
Pyrene	0.073		0.061	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		31 - 143	01/17/25 14:34	01/20/25 12:21	1
2-Fluorobiphenyl (Surr)	87		43 - 145	01/17/25 14:34	01/20/25 12:21	1
2-Fluorophenol (Surr)	87		31 - 166	01/17/25 14:34	01/20/25 12:21	1
Nitrobenzene-d5 (Surr)	82		37 - 147	01/17/25 14:34	01/20/25 12:21	1
Phenol-d5 (Surr)	90		30 - 153	01/17/25 14:34	01/20/25 12:21	1
Terphenyl-d14 (Surr)	98		42 - 157	01/17/25 14:34	01/20/25 12:21	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.46	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Arsenic	13		1.2	0.40	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Barium	30		1.2	0.13	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Beryllium	0.44	J	0.47	0.11	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Boron	2.8	J	5.9	0.55	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Cadmium	0.11	J	0.23	0.042	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Calcium	2900	B	23	4.0	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Chromium	7.2		1.2	0.58	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Cobalt	2.8		0.59	0.15	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Copper	9.9		1.2	0.33	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Iron	15000		23	12	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Lead	22		0.59	0.27	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Magnesium	670	B	12	5.8	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Manganese	120		1.2	0.17	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Nickel	6.4		1.2	0.34	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Potassium	240		59	21	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Selenium	<1.2		1.2	0.69	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Silver	<0.59		0.59	0.15	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Sodium	360		120	17	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Thallium	<1.2		1.2	0.58	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Vanadium	14		0.59	0.14	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1
Zinc	43		2.3	1.0	mg/Kg	☆	01/17/25 16:49	01/20/25 13:32	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010	J	0.050	0.010	mg/L		01/20/25 08:44	01/20/25 23:35	1
Iron	4.5		0.40	0.20	mg/L		01/20/25 08:44	01/20/25 23:35	1
Lead	0.013		0.0075	0.0075	mg/L		01/20/25 08:44	01/20/25 23:35	1
Manganese	0.022	J	0.025	0.010	mg/L		01/20/25 08:44	01/20/25 23:35	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B07

Lab Sample ID: 500-262789-2

Date Collected: 01/15/25 09:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 78.5

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.053		0.050	0.010	mg/L		01/20/25 08:46	01/21/25 02:00	1
Barium	0.23	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 02:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 02:00	1
Boron	<0.50		0.50	0.25	mg/L		01/20/25 08:46	01/21/25 14:46	5
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 02:00	1
Calcium	73		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:00	1
Chromium	0.019	J	0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:00	1
Cobalt	<0.13		0.13	0.050	mg/L		01/20/25 08:46	01/21/25 14:46	5
Iron	27		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 02:00	1
Lead	0.078		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 02:00	1
Manganese	1.4		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:00	1
Nickel	0.026		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:00	1
Potassium	2.8		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:00	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 02:00	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:00	1
Zinc	0.35	J	2.5	0.10	mg/L		01/20/25 08:46	01/21/25 14:46	5

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0049	J	0.0060	0.0013	mg/L		01/20/25 08:44	01/22/25 16:05	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0065		0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 13:58	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 13:58	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0084	mg/Kg	☆	01/24/25 15:00	01/27/25 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	☆	01/19/25 11:13	01/19/25 12:58	1
pH (SW846 9045D)	7.4		0.2	0.2	SU			01/17/25 12:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B06

Lab Sample ID: 500-262789-3

Date Collected: 01/15/25 09:20

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 83.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00084	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00077	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
1,1-Dichloroethane	<0.0021		0.0021	0.00078	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
1,1-Dichloroethene	<0.0021		0.0021	0.00085	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
1,2-Dichloroethane	<0.0052		0.0052	0.0013	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00099	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
2-Hexanone	<0.0052		0.0052	0.0031	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0037	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Acetone	<0.021		0.021	0.0087	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Benzene	<0.0021		0.0021	0.00065	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Bromodichloromethane	<0.0021		0.0021	0.00066	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Bromoform	<0.0021		0.0021	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Bromomethane	<0.0052		0.0052	0.0025	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Carbon disulfide	<0.0052		0.0052	0.00095	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Carbon tetrachloride	<0.0021		0.0021	0.00070	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Chlorobenzene	<0.0021		0.0021	0.00087	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Chloroethane	<0.0052		0.0052	0.0017	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Chloroform	<0.0021		0.0021	0.0015	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Chloromethane	<0.0052		0.0052	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00083	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00083	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Dibromochloromethane	<0.0021		0.0021	0.00096	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Ethylbenzene	<0.0021		0.0021	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00067	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Methylene Chloride	<0.0052		0.0052	0.0022	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Styrene	<0.0021		0.0021	0.00093	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Tetrachloroethene	<0.0021		0.0021	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Toluene	<0.0021		0.0021	0.00042	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00078	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00099	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Trichloroethene	<0.0021		0.0021	0.00056	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Vinyl chloride	<0.0021		0.0021	0.00084	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1
Xylenes, Total	<0.0041		0.0041	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/16/25 18:15	01/17/25 16:36	1
4-Bromofluorobenzene (Surr)	101		75 - 131	01/16/25 18:15	01/17/25 16:36	1
Dibromofluoromethane (Surr)	101		75 - 126	01/16/25 18:15	01/17/25 16:36	1
Toluene-d8 (Surr)	100		75 - 124	01/16/25 18:15	01/17/25 16:36	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B06

Lab Sample ID: 500-262789-3

Date Collected: 01/15/25 09:20

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 83.1

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2-Methylnaphthalene	0.016	J	0.079	0.0079	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
4-Nitrophenol	<0.79		0.79	0.15	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Acenaphthene	<0.039		0.039	0.0080	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Acenaphthylene	<0.039		0.039	0.0067	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Anthracene	0.0088	J	0.039	0.0080	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Benzo[a]anthracene	0.047		0.039	0.0083	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Benzo[a]pyrene	0.049		0.039	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Benzo[b]fluoranthene	0.068		0.039	0.037	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Benzo[g,h,i]perylene	0.036	J	0.039	0.0085	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Benzo[k]fluoranthene	0.022	J	0.039	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Carbazole	<0.20		0.20	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Chrysene	0.061		0.039	0.010	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Fluoranthene	0.064		0.039	0.0091	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Hexachlorocyclopentadiene	<0.79		0.79	0.42	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B06

Lab Sample ID: 500-262789-3

Date Collected: 01/15/25 09:20

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 83.1

Method: SW846 8270E - 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		0.039	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Naphthalene	0.0092	J	0.039	0.0071	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0077	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Phenanthrene	0.072		0.039	0.0085	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1
Pyrene	0.075		0.039	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		31 - 143	01/17/25 14:34	01/20/25 12:46	1
2-Fluorobiphenyl (Surr)	87		43 - 145	01/17/25 14:34	01/20/25 12:46	1
2-Fluorophenol (Surr)	82		31 - 166	01/17/25 14:34	01/20/25 12:46	1
Nitrobenzene-d5 (Surr)	79		37 - 147	01/17/25 14:34	01/20/25 12:46	1
Phenol-d5 (Surr)	84		30 - 153	01/17/25 14:34	01/20/25 12:46	1
Terphenyl-d14 (Surr)	95		42 - 157	01/17/25 14:34	01/20/25 12:46	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.42	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Arsenic	6.0		1.1	0.37	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Barium	43		1.1	0.12	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Beryllium	0.40	J	0.43	0.10	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Boron	3.1	J	5.4	0.50	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Cadmium	0.42		0.22	0.039	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Calcium	3900	B	22	3.7	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Chromium	8.2		1.1	0.53	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Cobalt	4.2		0.54	0.14	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Copper	22		1.1	0.30	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Iron	6800		22	11	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Lead	47		0.54	0.25	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Magnesium	1600	B	11	5.3	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Manganese	110		1.1	0.16	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Nickel	9.0		1.1	0.31	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Potassium	660		54	19	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Selenium	<1.1		1.1	0.63	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Silver	0.15	J	0.54	0.14	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Sodium	1100		110	16	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Thallium	0.61	J	1.1	0.54	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Vanadium	12		0.54	0.13	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1
Zinc	79		2.2	0.95	mg/Kg	☆	01/17/25 16:49	01/20/25 13:36	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		01/20/25 08:44	01/20/25 23:39	1
Iron	16		0.40	0.20	mg/L		01/20/25 08:44	01/20/25 23:39	1
Lead	0.14		0.0075	0.0075	mg/L		01/20/25 08:44	01/20/25 23:39	1
Manganese	0.36		0.025	0.010	mg/L		01/20/25 08:44	01/20/25 23:39	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B06

Lab Sample ID: 500-262789-3

Date Collected: 01/15/25 09:20

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 83.1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.069		0.050	0.010	mg/L		01/20/25 08:46	01/21/25 02:04	1
Barium	0.49	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 02:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 02:04	1
Boron	<0.50		0.50	0.25	mg/L		01/20/25 08:46	01/21/25 14:50	5
Cadmium	0.0039	J	0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 02:04	1
Calcium	69		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:04	1
Chromium	0.076		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:04	1
Cobalt	<0.13		0.13	0.050	mg/L		01/20/25 08:46	01/21/25 14:50	5
Iron	61		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 02:04	1
Lead	0.73		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 02:04	1
Manganese	1.3		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:04	1
Nickel	0.088		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:04	1
Potassium	11		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:04	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 02:04	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:04	1
Zinc	0.88	J	2.5	0.10	mg/L		01/20/25 08:46	01/21/25 14:50	5

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0026	J	0.0060	0.0013	mg/L		01/20/25 08:44	01/22/25 16:09	1
Thallium	0.00061	J	0.0020	0.00057	mg/L		01/20/25 08:44	01/22/25 16:09	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.017		0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 14:14	1
Thallium	0.0022		0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 14:14	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0076	mg/Kg	☆	01/24/25 15:00	01/27/25 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	☆	01/19/25 11:13	01/19/25 12:59	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			01/17/25 12:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B05-1

Lab Sample ID: 500-262789-4

Date Collected: 01/15/25 09:30

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 89.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00081	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00075	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
1,1-Dichloroethane	<0.0020		0.0020	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
1,1-Dichloroethene	<0.0020		0.0020	0.00083	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
1,2-Dichloroethane	<0.0050		0.0050	0.0013	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00096	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
2-Hexanone	<0.0050		0.0050	0.0030	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0036	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Acetone	<0.020		0.020	0.0084	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Benzene	<0.0020		0.0020	0.00063	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Bromodichloromethane	<0.0020		0.0020	0.00064	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Bromoform	<0.0020		0.0020	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Bromomethane	<0.0050		0.0050	0.0025	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Carbon disulfide	<0.0050		0.0050	0.00092	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Carbon tetrachloride	<0.0020		0.0020	0.00068	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Chlorobenzene	<0.0020		0.0020	0.00085	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Chloroethane	<0.0050		0.0050	0.0016	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Chloroform	<0.0020		0.0020	0.0014	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Chloromethane	<0.0050		0.0050	0.00097	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00081	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00080	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Dibromochloromethane	<0.0020		0.0020	0.00093	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Ethylbenzene	<0.0020		0.0020	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00065	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Methylene Chloride	<0.0050		0.0050	0.0021	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Styrene	<0.0020		0.0020	0.00090	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Tetrachloroethene	<0.0020		0.0020	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Toluene	<0.0020		0.0020	0.00040	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00096	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Trichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Vinyl chloride	<0.0020		0.0020	0.00082	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1
Xylenes, Total	<0.0040		0.0040	0.00069	mg/Kg	☆	01/16/25 18:15	01/17/25 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	01/16/25 18:15	01/17/25 17:00	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/16/25 18:15	01/17/25 17:00	1
Dibromofluoromethane (Surr)	100		75 - 126	01/16/25 18:15	01/17/25 17:00	1
Toluene-d8 (Surr)	98		75 - 124	01/16/25 18:15	01/17/25 17:00	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.28		0.28	0.040	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
1,2-Dichlorobenzene	<0.28		0.28	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
1,3-Dichlorobenzene	<0.28		0.28	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
1,4-Dichlorobenzene	<0.28		0.28	0.026	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2,2'-oxybis[1-chloropropane]	<0.28		0.28	0.040	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B05-1

Lab Sample ID: 500-262789-4

Date Collected: 01/15/25 09:30

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.55		0.55	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2,4,6-Trichlorophenol	<0.55		0.55	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2,4-Dichlorophenol	<0.55		0.55	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2,4-Dimethylphenol	<0.55		0.55	0.12	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2,4-Dinitrophenol	<1.1		1.1	0.32	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2,4-Dinitrotoluene	<0.28		0.28	0.032	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2,6-Dinitrotoluene	<0.28		0.28	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2-Chloronaphthalene	<0.28		0.28	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2-Chlorophenol	<0.28		0.28	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2-Methylnaphthalene	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2-Methylphenol	<0.28		0.28	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2-Nitroaniline	<0.28		0.28	0.030	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
2-Nitrophenol	<0.55		0.55	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
3 & 4 Methylphenol	<0.28		0.28	0.041	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
3,3'-Dichlorobenzidine	<0.28		0.28	0.045	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
3-Nitroaniline	<0.55		0.55	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
4,6-Dinitro-2-methylphenol	<1.1		1.1	0.31	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
4-Bromophenyl phenyl ether	<0.28		0.28	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
4-Chloro-3-methylphenol	<0.55		0.55	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
4-Chloroaniline	<1.1		1.1	0.58	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
4-Chlorophenyl phenyl ether	<0.28		0.28	0.073	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
4-Nitroaniline	<0.55		0.55	0.041	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
4-Nitrophenol	<1.1		1.1	0.21	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Acenaphthene	<0.055		0.055	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Acenaphthylene	<0.055		0.055	0.0094	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Anthracene	<0.055		0.055	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Benzo[a]anthracene	<0.055		0.055	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Benzo[a]pyrene	<0.055		0.055	0.053	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Benzo[b]fluoranthene	<0.055		0.055	0.053	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Benzo[g,h,i]perylene	<0.055		0.055	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Benzo[k]fluoranthene	<0.055		0.055	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Bis(2-chloroethoxy)methane	<0.28		0.28	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Bis(2-chloroethyl)ether	<0.28		0.28	0.026	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Bis(2-ethylhexyl) phthalate	<0.28		0.28	0.22	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Butyl benzyl phthalate	<0.28		0.28	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Carbazole	<0.28		0.28	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Chrysene	<0.055		0.055	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Dibenz(a,h)anthracene	<0.055		0.055	0.055	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Dibenzofuran	<0.28		0.28	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Diethyl phthalate	<0.28		0.28	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Dimethyl phthalate	<0.28		0.28	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Di-n-butyl phthalate	<0.28		0.28	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Di-n-octyl phthalate	<0.55		0.55	0.39	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Fluoranthene	<0.055		0.055	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Fluorene	<0.055		0.055	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Hexachlorobenzene	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Hexachlorobutadiene	<0.28		0.28	0.031	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Hexachlorocyclopentadiene	<1.1		1.1	0.59	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Hexachloroethane	<0.28		0.28	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B05-1

Lab Sample ID: 500-262789-4

Date Collected: 01/15/25 09:30

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 89.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.055		0.055	0.054	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Isophorone	<0.28		0.28	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Naphthalene	<0.055		0.055	0.010	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Nitrobenzene	<0.055		0.055	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
N-Nitrosodi-n-propylamine	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
N-Nitrosodiphenylamine	<0.28		0.28	0.033	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Pentachlorophenol	<1.1		1.1	0.14	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Phenanthrene	<0.055		0.055	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Phenol	<0.28		0.28	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1
Pyrene	<0.055		0.055	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		31 - 143	01/17/25 14:34	01/20/25 13:11	1
2-Fluorobiphenyl (Surr)	82		43 - 145	01/17/25 14:34	01/20/25 13:11	1
2-Fluorophenol (Surr)	86		31 - 166	01/17/25 14:34	01/20/25 13:11	1
Nitrobenzene-d5 (Surr)	82		37 - 147	01/17/25 14:34	01/20/25 13:11	1
Phenol-d5 (Surr)	86		30 - 153	01/17/25 14:34	01/20/25 13:11	1
Terphenyl-d14 (Surr)	98		42 - 157	01/17/25 14:34	01/20/25 13:11	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.43	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Arsenic	5.0		1.1	0.38	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Barium	14		1.1	0.13	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Beryllium	0.27	J	0.45	0.10	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Boron	1.2	J	5.6	0.52	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Cadmium	<0.22		0.22	0.040	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Calcium	860	B	22	3.8	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Chromium	7.3		1.1	0.55	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Cobalt	5.5		0.56	0.15	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Copper	6.6		1.1	0.31	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Iron	9700		22	12	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Lead	7.9		0.56	0.26	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Magnesium	1000	B	11	5.5	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Manganese	52		1.1	0.16	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Nickel	8.7		1.1	0.32	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Potassium	500		56	20	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Selenium	<1.1		1.1	0.65	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Silver	0.16	J	0.56	0.14	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Sodium	280		110	16	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Thallium	<1.1		1.1	0.56	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Vanadium	11		0.56	0.13	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1
Zinc	27		2.2	0.98	mg/Kg	☆	01/17/25 16:49	01/20/25 13:40	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14		0.40	0.20	mg/L		01/20/25 08:44	01/20/25 23:44	1
Lead	0.012		0.0075	0.0075	mg/L		01/20/25 08:44	01/20/25 23:44	1
Manganese	0.093		0.025	0.010	mg/L		01/20/25 08:44	01/20/25 23:44	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B05-1

Lab Sample ID: 500-262789-4

Date Collected: 01/15/25 09:30

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 89.1

Method: SW846 6010D - 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		01/20/25 08:46	01/21/25 02:08	1
Barium	0.14	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 02:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 02:08	1
Boron	<0.10		0.10	0.050	mg/L		01/20/25 08:46	01/21/25 02:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 02:08	1
Calcium	7.0		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:08	1
Chromium	0.042		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:08	1
Cobalt	0.026		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:08	1
Iron	38		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 02:08	1
Lead	0.050		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 02:08	1
Manganese	0.27		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:08	1
Nickel	0.044		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:08	1
Potassium	2.8		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:08	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 02:08	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:08	1
Zinc	0.13	J	0.50	0.020	mg/L		01/20/25 08:46	01/21/25 14:55	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 14:18	1
Thallium	0.00063	J	0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 14:18	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0069	mg/Kg	☆	01/24/25 15:00	01/27/25 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	☆	01/19/25 11:13	01/19/25 13:01	1
pH (SW846 9045D)	8.5		0.2	0.2	SU			01/17/25 12:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B05-2

Lab Sample ID: 500-262789-5

Date Collected: 01/15/25 09:40

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 76.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00088	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.0011	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00081	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
1,1-Dichloroethane	<0.0022		0.0022	0.00082	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
1,1-Dichloroethene	<0.0022		0.0022	0.00089	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
1,2-Dichloroethane	<0.0054		0.0054	0.0014	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.0010	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
2-Hexanone	<0.0054		0.0054	0.0033	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0038	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Acetone	<0.022		0.022	0.0091	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Benzene	<0.0022		0.0022	0.00068	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Bromodichloromethane	<0.0022		0.0022	0.00069	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Bromoform	<0.0022		0.0022	0.0013	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Bromomethane	<0.0054		0.0054	0.0027	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Carbon disulfide	<0.0054		0.0054	0.0010	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Carbon tetrachloride	<0.0022		0.0022	0.00074	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Chlorobenzene	<0.0022		0.0022	0.00091	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Chloroethane	<0.0054		0.0054	0.0018	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Chloroform	<0.0022		0.0022	0.0016	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Chloromethane	<0.0054	*	0.0054	0.0010	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00087	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00087	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Dibromochloromethane	<0.0022		0.0022	0.0010	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00070	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Methylene Chloride	<0.0054		0.0054	0.0023	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Styrene	<0.0022		0.0022	0.00097	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Tetrachloroethene	<0.0022		0.0022	0.0012	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Toluene	<0.0022		0.0022	0.00044	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00082	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.0010	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Trichloroethene	<0.0022		0.0022	0.00059	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Vinyl chloride	<0.0022	*	0.0022	0.00088	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1
Xylenes, Total	<0.0043		0.0043	0.00074	mg/Kg	☆	01/16/25 18:15	01/20/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	01/16/25 18:15	01/20/25 12:27	1
4-Bromofluorobenzene (Surr)	116		75 - 131	01/16/25 18:15	01/20/25 12:27	1
Dibromofluoromethane (Surr)	97		75 - 126	01/16/25 18:15	01/20/25 12:27	1
Toluene-d8 (Surr)	104		75 - 124	01/16/25 18:15	01/20/25 12:27	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.031	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
1,2-Dichlorobenzene	<0.22		0.22	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
1,3-Dichlorobenzene	<0.22		0.22	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
1,4-Dichlorobenzene	<0.22		0.22	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.031	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B05-2

Lab Sample ID: 500-262789-5

Date Collected: 01/15/25 09:40

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 76.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2,4,6-Trichlorophenol	<0.43		0.43	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2,4-Dichlorophenol	<0.43		0.43	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2,4-Dimethylphenol	<0.43		0.43	0.096	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2,4-Dinitrophenol	<0.86		0.86	0.25	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2,4-Dinitrotoluene	<0.22		0.22	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2,6-Dinitrotoluene	<0.22		0.22	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2-Chloronaphthalene	<0.22		0.22	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2-Chlorophenol	<0.22		0.22	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2-Methylnaphthalene	<0.086		0.086	0.0086	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2-Methylphenol	<0.22		0.22	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2-Nitroaniline	<0.22		0.22	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
2-Nitrophenol	<0.43		0.43	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
3 & 4 Methylphenol	<0.22		0.22	0.031	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.035	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
3-Nitroaniline	<0.43		0.43	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.24	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
4-Chloro-3-methylphenol	<0.43		0.43	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
4-Chloroaniline	<0.86		0.86	0.45	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.056	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
4-Nitroaniline	<0.43		0.43	0.032	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
4-Nitrophenol	<0.86		0.86	0.16	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Acenaphthene	<0.043		0.043	0.0087	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Acenaphthylene	<0.043		0.043	0.0073	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Anthracene	<0.043		0.043	0.0087	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Benzo[a]anthracene	0.022 J		0.043	0.0091	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Benzo[a]pyrene	<0.043		0.043	0.041	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Benzo[b]fluoranthene	<0.043		0.043	0.041	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Benzo[g,h,i]perylene	<0.043		0.043	0.0093	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Benzo[k]fluoranthene	<0.043		0.043	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.17	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Butyl benzyl phthalate	<0.22		0.22	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Carbazole	<0.22		0.22	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Chrysene	<0.043		0.043	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Dibenz(a,h)anthracene	<0.043		0.043	0.043	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Dibenzofuran	<0.22		0.22	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Diethyl phthalate	<0.22		0.22	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Dimethyl phthalate	<0.22		0.22	0.0093	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Di-n-butyl phthalate	<0.22		0.22	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Di-n-octyl phthalate	<0.43		0.43	0.30	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Fluoranthene	0.016 J		0.043	0.0099	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Fluorene	<0.043		0.043	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Hexachlorobenzene	<0.086		0.086	0.0082	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Hexachlorobutadiene	<0.22		0.22	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Hexachlorocyclopentadiene	<0.86		0.86	0.45	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Hexachloroethane	<0.22		0.22	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B05-2

Lab Sample ID: 500-262789-5

Date Collected: 01/15/25 09:40

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 76.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.042	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Isophorone	<0.22		0.22	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Naphthalene	<0.043		0.043	0.0077	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Nitrobenzene	<0.043		0.043	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.0084	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
N-Nitrosodiphenylamine	<0.22		0.22	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Pentachlorophenol	<0.86		0.86	0.11	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Phenanthrene	<0.043		0.043	0.0093	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Phenol	<0.22		0.22	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1
Pyrene	0.020	J	0.043	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		31 - 143	01/17/25 14:34	01/20/25 13:36	1
2-Fluorobiphenyl (Surr)	80		43 - 145	01/17/25 14:34	01/20/25 13:36	1
2-Fluorophenol (Surr)	83		31 - 166	01/17/25 14:34	01/20/25 13:36	1
Nitrobenzene-d5 (Surr)	78		37 - 147	01/17/25 14:34	01/20/25 13:36	1
Phenol-d5 (Surr)	84		30 - 153	01/17/25 14:34	01/20/25 13:36	1
Terphenyl-d14 (Surr)	87		42 - 157	01/17/25 14:34	01/20/25 13:36	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J F1	2.4	0.46	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Arsenic	7.0		1.2	0.40	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Barium	9.8		1.2	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Beryllium	0.21	J	0.47	0.11	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Boron	6.8		5.9	0.55	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Cadmium	0.19	J	0.24	0.042	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Calcium	29000	B	24	4.0	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Chromium	7.0		1.2	0.58	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Cobalt	9.5		0.59	0.15	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Copper	8.6		1.2	0.33	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Iron	11000		24	12	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Lead	9.2		0.59	0.27	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Magnesium	11000		12	5.8	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Manganese	250		1.2	0.17	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Nickel	14		1.2	0.34	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Potassium	920	F1	59	21	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Selenium	<1.2		1.2	0.69	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Silver	<0.59		0.59	0.15	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Sodium	420	B	120	17	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Thallium	<1.2		1.2	0.59	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Vanadium	11		0.59	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1
Zinc	47		2.4	1.0	mg/Kg	☆	01/17/25 16:57	01/21/25 12:05	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.024	J	0.025	0.010	mg/L	—	01/20/25 08:44	01/20/25 23:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B05-2

Lab Sample ID: 500-262789-5

Date Collected: 01/15/25 09:40

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 76.7

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/25 08:46	01/21/25 02:13	1
Barium	0.098	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 02:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 02:13	1
Boron	<0.50		0.50	0.25	mg/L		01/20/25 08:46	01/21/25 14:59	5
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 02:13	1
Calcium	390		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:13	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:13	1
Cobalt	<0.13		0.13	0.050	mg/L		01/20/25 08:46	01/21/25 14:59	5
Iron	1.7		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 02:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 02:13	1
Manganese	1.5		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:13	1
Nickel	0.066		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:13	1
Potassium	1.9	J	2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:13	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 02:13	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:13	1
Zinc	0.25	J	2.5	0.10	mg/L		01/20/25 08:46	01/21/25 14:59	5

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 14:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 14:21	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.020	0.0082	mg/Kg	✱	01/24/25 15:00	01/27/25 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.15	mg/Kg	✱	01/19/25 11:13	01/19/25 13:03	1
pH (SW846 9045D)	8.3		0.2	0.2	SU			01/17/25 12:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B03

Lab Sample ID: 500-262789-6

Date Collected: 01/15/25 09:50

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 86.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00094	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
1,1-Dichloroethane	<0.0019		0.0019	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
1,1-Dichloroethene	<0.0019		0.0019	0.00078	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
1,2-Dichloroethane	<0.0047		0.0047	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00090	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
2-Hexanone	<0.0047		0.0047	0.0029	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0034	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Acetone	<0.019		0.019	0.0079	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Benzene	<0.0019		0.0019	0.00059	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Bromodichloromethane	<0.0019		0.0019	0.00061	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Bromoform	<0.0019		0.0019	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Bromomethane	<0.0047		0.0047	0.0023	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Carbon disulfide	<0.0047		0.0047	0.00087	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Carbon tetrachloride	<0.0019		0.0019	0.00064	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Chlorobenzene	<0.0019		0.0019	0.00080	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Chloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Chloroform	<0.0019		0.0019	0.0014	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Chloromethane	<0.0047		0.0047	0.00091	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Dibromochloromethane	<0.0019		0.0019	0.00087	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Ethylbenzene	<0.0019		0.0019	0.00099	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00061	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Methylene Chloride	<0.0047		0.0047	0.0020	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Styrene	<0.0019		0.0019	0.00085	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Tetrachloroethene	<0.0019		0.0019	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Toluene	<0.0019		0.0019	0.00038	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00090	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Trichloroethene	<0.0019		0.0019	0.00051	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Vinyl chloride	<0.0019		0.0019	0.00077	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1
Xylenes, Total	<0.0038		0.0038	0.00065	mg/Kg	☆	01/16/25 18:15	01/17/25 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	01/16/25 18:15	01/17/25 17:50	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/16/25 18:15	01/17/25 17:50	1
Dibromofluoromethane (Surr)	100		75 - 126	01/16/25 18:15	01/17/25 17:50	1
Toluene-d8 (Surr)	99		75 - 124	01/16/25 18:15	01/17/25 17:50	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B03

Lab Sample ID: 500-262789-6

Date Collected: 01/15/25 09:50

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 86.4

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2-Methylnaphthalene	<0.076		0.076	0.0075	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
4-Chloroaniline	<0.76		0.76	0.39	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Benzo[a]anthracene	0.010	J	0.037	0.0079	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Benzo[g,h,i]perylene	0.011	J	0.037	0.0081	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Chrysene	<0.037		0.037	0.0099	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Fluoranthene	<0.037		0.037	0.0087	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B03

Lab Sample ID: 500-262789-6

Date Collected: 01/15/25 09:50

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 86.4

Method: SW846 8270E - 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	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Naphthalene	<0.037		0.037	0.0068	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0074	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Pentachlorophenol	<0.76		0.76	0.094	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☆	01/17/25 14:34	01/20/25 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		31 - 143	01/17/25 14:34	01/20/25 14:00	1
2-Fluorobiphenyl (Surr)	90		43 - 145	01/17/25 14:34	01/20/25 14:00	1
2-Fluorophenol (Surr)	88		31 - 166	01/17/25 14:34	01/20/25 14:00	1
Nitrobenzene-d5 (Surr)	85		37 - 147	01/17/25 14:34	01/20/25 14:00	1
Phenol-d5 (Surr)	90		30 - 153	01/17/25 14:34	01/20/25 14:00	1
Terphenyl-d14 (Surr)	102		42 - 157	01/17/25 14:34	01/20/25 14:00	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.38	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Arsenic	9.5		0.98	0.34	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Barium	75		0.98	0.11	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Beryllium	0.54		0.39	0.092	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Boron	13		4.9	0.46	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Cadmium	0.12 J		0.20	0.035	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Calcium	41000 B		20	3.3	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Chromium	14		0.98	0.49	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Cobalt	10		0.49	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Copper	12		0.98	0.28	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Iron	17000		20	10	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Lead	9.6		0.49	0.23	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Magnesium	18000		9.8	4.9	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Manganese	290		0.98	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Nickel	20		0.98	0.29	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Potassium	1900		49	17	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Selenium	<0.98		0.98	0.58	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Silver	<0.49		0.49	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Sodium	470 B		98	15	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Thallium	0.72 J		0.98	0.49	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Vanadium	20		0.49	0.12	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1
Zinc	47		2.0	0.86	mg/Kg	☆	01/17/25 16:57	01/21/25 12:27	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/25 08:44	01/21/25 00:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:44	01/21/25 00:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/25 08:44	01/21/25 00:01	1
Iron	1.5		0.40	0.20	mg/L		01/20/25 08:44	01/21/25 00:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B03

Lab Sample ID: 500-262789-6

Date Collected: 01/15/25 09:50

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 86.4

Method: SW846 6010D - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/25 08:44	01/21/25 00:01	1
Manganese	1.1		0.025	0.010	mg/L		01/20/25 08:44	01/21/25 00:01	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/25 08:44	01/21/25 00:01	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.062		0.050	0.010	mg/L		01/20/25 08:46	01/21/25 02:17	1
Barium	0.47	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 02:17	1
Beryllium	0.0051		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 02:17	1
Boron	0.14		0.10	0.050	mg/L		01/20/25 08:46	01/21/25 02:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 02:17	1
Calcium	53		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:17	1
Chromium	0.12		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:17	1
Cobalt	0.049		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:17	1
Iron	130		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 02:17	1
Lead	0.074		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 02:17	1
Manganese	0.63		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:17	1
Nickel	0.15		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:17	1
Potassium	18		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:17	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 02:17	1
Silver	0.014	J	0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:17	1
Zinc	0.33	J	0.50	0.020	mg/L		01/20/25 08:46	01/21/25 15:03	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0014	J	0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 14:25	1
Thallium	0.00095	J	0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 14:25	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0075	mg/Kg	☆	01/24/25 15:00	01/27/25 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.26		0.26	0.13	mg/Kg	☆	01/19/25 11:13	01/19/25 13:08	1
pH (SW846 9045D)	8.6		0.2	0.2	SU			01/17/25 12:44	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B04

Lab Sample ID: 500-262789-7

Date Collected: 01/15/25 10:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 81.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0023		0.0023	0.00094	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.0012	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00087	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
1,1-Dichloroethane	<0.0023		0.0023	0.00088	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
1,1-Dichloroethene	<0.0023		0.0023	0.00096	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
1,2-Dichloroethane	<0.0058		0.0058	0.0015	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
1,2-Dichloropropane	<0.0023		0.0023	0.00060	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.0011	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
2-Butanone (MEK)	<0.0058		0.0058	0.0026	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
2-Hexanone	<0.0058		0.0058	0.0035	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0041	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Acetone	<0.023		0.023	0.0098	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Benzene	<0.0023		0.0023	0.00073	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Bromodichloromethane	<0.0023		0.0023	0.00075	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Bromoform	<0.0023		0.0023	0.0014	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Bromomethane	<0.0058		0.0058	0.0029	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Carbon disulfide	<0.0058		0.0058	0.0011	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Carbon tetrachloride	<0.0023		0.0023	0.00079	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Chlorobenzene	<0.0023		0.0023	0.00098	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Chloroethane	<0.0058		0.0058	0.0019	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Chloroform	<0.0023		0.0023	0.0017	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Chloromethane	<0.0058	*	0.0058	0.0011	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00094	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00093	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Dibromochloromethane	<0.0023		0.0023	0.0011	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Ethylbenzene	<0.0023		0.0023	0.0012	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00075	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Methylene Chloride	<0.0058		0.0058	0.0025	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Styrene	<0.0023		0.0023	0.0010	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Tetrachloroethene	<0.0023		0.0023	0.0013	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Toluene	<0.0023		0.0023	0.00047	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.00088	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.0011	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Trichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Vinyl chloride	<0.0023	*	0.0023	0.00095	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1
Xylenes, Total	<0.0047		0.0047	0.00080	mg/Kg	☆	01/16/25 18:15	01/20/25 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	01/16/25 18:15	01/20/25 12:52	1
4-Bromofluorobenzene (Surr)	97		75 - 131	01/16/25 18:15	01/20/25 12:52	1
Dibromofluoromethane (Surr)	99		75 - 126	01/16/25 18:15	01/20/25 12:52	1
Toluene-d8 (Surr)	97		75 - 124	01/16/25 18:15	01/20/25 12:52	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B04

Lab Sample ID: 500-262789-7

Date Collected: 01/15/25 10:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 81.5

Method: SW846 8270E - 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	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2-Methylnaphthalene	<0.079		0.079	0.0079	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
4-Nitrophenol	<0.79		0.79	0.15	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Acenaphthene	<0.039		0.039	0.0080	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Acenaphthylene	<0.039		0.039	0.0067	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Anthracene	<0.039		0.039	0.0080	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Benzo[a]anthracene	0.023 J		0.039	0.0083	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Benzo[b]fluoranthene	<0.039		0.039	0.037	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Benzo[g,h,i]perylene	0.022 J		0.039	0.0085	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Bis(2-ethylhexyl) phthalate	0.18 J		0.20	0.15	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Chrysene	0.029 J		0.039	0.010	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Fluoranthene	0.045		0.039	0.0091	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Hexachlorocyclopentadiene	<0.79		0.79	0.42	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B04

Lab Sample ID: 500-262789-7

Date Collected: 01/15/25 10:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 81.5

Method: SW846 8270E - 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	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0078	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Phenanthrene	0.034	J	0.039	0.0085	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1
Pyrene	0.040		0.039	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		31 - 143	01/17/25 14:34	01/20/25 15:15	1
2-Fluorobiphenyl (Surr)	86		43 - 145	01/17/25 14:34	01/20/25 15:15	1
2-Fluorophenol (Surr)	86		31 - 166	01/17/25 14:34	01/20/25 15:15	1
Nitrobenzene-d5 (Surr)	83		37 - 147	01/17/25 14:34	01/20/25 15:15	1
Phenol-d5 (Surr)	88		30 - 153	01/17/25 14:34	01/20/25 15:15	1
Terphenyl-d14 (Surr)	100		42 - 157	01/17/25 14:34	01/20/25 15:15	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.43	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Arsenic	6.5		1.1	0.38	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Barium	30		1.1	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Beryllium	0.27	J	0.45	0.10	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Boron	3.9	J	5.6	0.52	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Cadmium	0.096	J	0.22	0.040	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Calcium	2300	B	22	3.8	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Chromium	8.6		1.1	0.55	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Cobalt	4.6		0.56	0.15	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Copper	5.7		1.1	0.31	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Iron	12000		22	12	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Lead	13		0.56	0.26	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Magnesium	1400		11	5.5	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Manganese	85		1.1	0.16	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Nickel	7.7		1.1	0.32	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Potassium	450		56	20	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Selenium	<1.1		1.1	0.65	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Silver	<0.56		0.56	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Sodium	270	B	110	16	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Thallium	<1.1		1.1	0.56	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Vanadium	15		0.56	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1
Zinc	40		2.2	0.98	mg/Kg	☆	01/17/25 16:57	01/21/25 12:32	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.1		0.40	0.20	mg/L		01/20/25 08:44	01/21/25 00:06	1
Lead	0.0083		0.0075	0.0075	mg/L		01/20/25 08:44	01/21/25 00:06	1
Manganese	0.62		0.025	0.010	mg/L		01/20/25 08:44	01/21/25 00:06	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B04

Lab Sample ID: 500-262789-7

Date Collected: 01/15/25 10:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 81.5

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.050	0.010	mg/L		01/20/25 08:46	01/21/25 02:22	1
Barium	0.14	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 02:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 02:22	1
Boron	0.081	J	0.10	0.050	mg/L		01/20/25 08:46	01/21/25 02:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 02:22	1
Calcium	13		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:22	1
Chromium	0.026		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:22	1
Cobalt	0.011	J	0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:22	1
Iron	38		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 02:22	1
Lead	0.044		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 02:22	1
Manganese	0.20		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:22	1
Nickel	0.021	J	0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:22	1
Potassium	2.1	J	2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:22	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 02:22	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:22	1
Zinc	0.13	J	0.50	0.020	mg/L		01/20/25 08:46	01/21/25 15:08	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 14:29	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 14:29	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0076	mg/Kg	☆	01/24/25 15:00	01/27/25 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	☆	01/19/25 11:13	01/19/25 13:10	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			01/17/25 12:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B02

Lab Sample ID: 500-262789-8

Date Collected: 01/15/25 10:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 85.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00092	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00069	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
1,1-Dichloroethane	<0.0018		0.0018	0.00070	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
1,1-Dichloroethene	<0.0018		0.0018	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
1,2-Dichloroethane	<0.0046		0.0046	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00089	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
2-Hexanone	<0.0046		0.0046	0.0028	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0033	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Benzene	<0.0018		0.0018	0.00058	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Bromodichloromethane	<0.0018		0.0018	0.00059	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Bromoform	<0.0018		0.0018	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Bromomethane	<0.0046		0.0046	0.0023	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Carbon disulfide	<0.0046		0.0046	0.00085	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Carbon tetrachloride	<0.0018		0.0018	0.00063	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Chlorobenzene	<0.0018		0.0018	0.00078	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Chloroethane	<0.0046		0.0046	0.0015	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Chloroform	<0.0018		0.0018	0.0013	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Chloromethane	<0.0046		0.0046	0.00090	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00074	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00074	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Dibromochloromethane	<0.0018		0.0018	0.00086	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Ethylbenzene	<0.0018		0.0018	0.00097	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00060	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Methylene Chloride	<0.0046		0.0046	0.0020	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Styrene	<0.0018		0.0018	0.00083	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Tetrachloroethene	<0.0018		0.0018	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Toluene	<0.0018		0.0018	0.00037	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00070	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00089	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Trichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Vinyl chloride	<0.0018		0.0018	0.00075	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1
Xylenes, Total	<0.0037		0.0037	0.00063	mg/Kg	☆	01/16/25 18:15	01/17/25 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	01/16/25 18:15	01/17/25 18:40	1
4-Bromofluorobenzene (Surr)	112		75 - 131	01/16/25 18:15	01/17/25 18:40	1
Dibromofluoromethane (Surr)	97		75 - 126	01/16/25 18:15	01/17/25 18:40	1
Toluene-d8 (Surr)	103		75 - 124	01/16/25 18:15	01/17/25 18:40	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B02

Lab Sample ID: 500-262789-8

Date Collected: 01/15/25 10:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 85.7

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2-Methylnaphthalene	<0.076		0.076	0.0075	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
4-Chloroaniline	<0.76		0.76	0.39	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Acenaphthylene	<0.037		0.037	0.0064	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Anthracene	<0.037		0.037	0.0077	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Benzo[a]anthracene	0.016 J		0.037	0.0080	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Benzo[g,h,i]perylene	0.020 J		0.037	0.0081	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Chrysene	0.019 J		0.037	0.0099	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Fluoranthene	0.022 J		0.037	0.0087	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 15:40	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B02

Lab Sample ID: 500-262789-8

Date Collected: 01/15/25 10:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 85.7

Method: SW846 8270E - 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	0.037	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
Isophorone	<0.19		0.19	0.019	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
Naphthalene	<0.037		0.037	0.0068	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0074	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
Pentachlorophenol	<0.76		0.76	0.094	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
Phenanthrene	0.021	J	0.037	0.0082	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
Phenol	<0.19		0.19	0.016	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
Pyrene	0.030	J	0.037	0.010	mg/Kg	✱	01/17/25 14:34	01/20/25 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		31 - 143				01/17/25 14:34	01/20/25 15:40	1
2-Fluorobiphenyl (Surr)	83		43 - 145				01/17/25 14:34	01/20/25 15:40	1
2-Fluorophenol (Surr)	85		31 - 166				01/17/25 14:34	01/20/25 15:40	1
Nitrobenzene-d5 (Surr)	83		37 - 147				01/17/25 14:34	01/20/25 15:40	1
Phenol-d5 (Surr)	86		30 - 153				01/17/25 14:34	01/20/25 15:40	1
Terphenyl-d14 (Surr)	98		42 - 157				01/17/25 14:34	01/20/25 15:40	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.44	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Arsenic	9.6		1.1	0.39	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Barium	45		1.1	0.13	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Beryllium	0.42	J	0.45	0.11	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Boron	12		5.7	0.53	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Cadmium	0.21	J	0.23	0.041	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Calcium	38000	B	23	3.8	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Chromium	13		1.1	0.56	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Cobalt	7.5		0.57	0.15	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Copper	14		1.1	0.32	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Iron	16000		23	12	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Lead	13		0.57	0.26	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Magnesium	18000		11	5.6	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Manganese	260		1.1	0.16	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Nickel	18		1.1	0.33	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Potassium	1800		57	20	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Selenium	<1.1		1.1	0.66	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Silver	<0.57		0.57	0.15	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Sodium	550	B	110	17	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Thallium	0.82	J	1.1	0.56	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Vanadium	18		0.57	0.13	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1
Zinc	49		2.3	0.99	mg/Kg	✱	01/17/25 16:57	01/21/25 12:36	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.9		0.40	0.20	mg/L		01/20/25 08:44	01/21/25 00:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/25 08:44	01/21/25 00:10	1
Manganese	1.4		0.025	0.010	mg/L		01/20/25 08:44	01/21/25 00:10	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B02

Lab Sample ID: 500-262789-8

Date Collected: 01/15/25 10:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 85.7

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.029	J	0.050	0.010	mg/L		01/20/25 08:46	01/21/25 02:26	1
Barium	0.23	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 02:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 02:26	1
Boron	0.17		0.10	0.050	mg/L		01/20/25 08:46	01/21/25 02:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 02:26	1
Calcium	39		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:26	1
Chromium	0.065		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:26	1
Cobalt	0.030		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:26	1
Iron	66		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 02:26	1
Lead	0.057		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 02:26	1
Manganese	0.58		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:26	1
Nickel	0.089		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:26	1
Potassium	12		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:26	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 02:26	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:26	1
Zinc	0.24	J	0.50	0.020	mg/L		01/20/25 08:46	01/21/25 15:12	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 14:33	1
Thallium	0.00086	J	0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 14:33	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.017	0.0070	mg/Kg	✱	01/24/25 15:00	01/27/25 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.12	mg/Kg	✱	01/19/25 11:13	01/19/25 13:12	1
pH (SW846 9045D)	8.7		0.2	0.2	SU			01/17/25 12:48	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B26-1

Lab Sample ID: 500-262789-13

Date Collected: 01/15/25 11:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 88.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00064	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00078	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00059	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
1,1-Dichloroethane	<0.0016		0.0016	0.00059	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
1,1-Dichloroethene	<0.0016		0.0016	0.00065	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
1,2-Dichloroethane	<0.0039		0.0039	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
2-Hexanone	<0.0039		0.0039	0.0024	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0028	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Acetone	<0.016		0.016	0.0066	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Benzene	<0.0016		0.0016	0.00050	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Bromodichloromethane	<0.0016		0.0016	0.00051	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Bromoform	<0.0016		0.0016	0.00092	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Bromomethane	<0.0039		0.0039	0.0019	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Carbon disulfide	<0.0039		0.0039	0.00073	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Carbon tetrachloride	<0.0016		0.0016	0.00054	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Chlorobenzene	<0.0016		0.0016	0.00067	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Chloroethane	<0.0039		0.0039	0.0013	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Chloroform	<0.0016		0.0016	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Chloromethane	<0.0039		0.0039	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00064	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00063	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Dibromochloromethane	<0.0016		0.0016	0.00073	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Ethylbenzene	<0.0016		0.0016	0.00083	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00051	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Methylene Chloride	<0.0039		0.0039	0.0017	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Styrene	<0.0016		0.0016	0.00071	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Tetrachloroethene	<0.0016		0.0016	0.00088	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Toluene	<0.0016		0.0016	0.00032	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00060	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00076	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Trichloroethene	<0.0016		0.0016	0.00043	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Vinyl chloride	<0.0016		0.0016	0.00064	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1
Xylenes, Total	<0.0032		0.0032	0.00054	mg/Kg	☆	01/16/25 18:15	01/17/25 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/16/25 18:15	01/17/25 20:45	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/16/25 18:15	01/17/25 20:45	1
Dibromofluoromethane (Surr)	100		75 - 126	01/16/25 18:15	01/17/25 20:45	1
Toluene-d8 (Surr)	99		75 - 124	01/16/25 18:15	01/17/25 20:45	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.026	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B26-1

Lab Sample ID: 500-262789-13

Date Collected: 01/15/25 11:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 88.8

Method: SW846 8270E - 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	0.014	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2-Methylnaphthalene	<0.075		0.075	0.0074	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Acenaphthene	<0.037		0.037	0.0075	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Benzo[a]anthracene	0.012 J		0.037	0.0079	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Benzo[g,h,i]perylene	0.018 J		0.037	0.0080	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Carbazole	<0.19		0.19	0.015	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Chrysene	0.013 J		0.037	0.0098	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Dimethyl phthalate	<0.19		0.19	0.0080	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Fluoranthene	<0.037		0.037	0.0086	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Fluorene	<0.037		0.037	0.011	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✱	01/17/25 14:34	01/20/25 17:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B26-1

Lab Sample ID: 500-262789-13

Date Collected: 01/15/25 11:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 88.8

Method: SW846 8270E - 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	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
Phenanthrene	0.021	J	0.037	0.0081	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1
Pyrene	0.011	J	0.037	0.010	mg/Kg	☆	01/17/25 14:34	01/20/25 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		31 - 143	01/17/25 14:34	01/20/25 17:43	1
2-Fluorobiphenyl (Surr)	88		43 - 145	01/17/25 14:34	01/20/25 17:43	1
2-Fluorophenol (Surr)	90		31 - 166	01/17/25 14:34	01/20/25 17:43	1
Nitrobenzene-d5 (Surr)	86		37 - 147	01/17/25 14:34	01/20/25 17:43	1
Phenol-d5 (Surr)	90		30 - 153	01/17/25 14:34	01/20/25 17:43	1
Terphenyl-d14 (Surr)	100		42 - 157	01/17/25 14:34	01/20/25 17:43	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.43	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Arsenic	7.1		1.1	0.38	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Barium	23		1.1	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Beryllium	0.24	J	0.44	0.10	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Boron	6.0		5.5	0.51	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Cadmium	0.14	J	0.22	0.039	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Calcium	21000	B	22	3.7	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Chromium	7.1		1.1	0.54	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Cobalt	6.0		0.55	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Copper	8.0		1.1	0.31	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Iron	11000		22	11	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Lead	9.3		0.55	0.25	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Magnesium	11000		11	5.4	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Manganese	160		1.1	0.16	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Nickel	10		1.1	0.32	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Potassium	930		55	19	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Selenium	<1.1		1.1	0.64	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Silver	<0.55		0.55	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Sodium	510	B	110	16	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Thallium	<1.1		1.1	0.55	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Vanadium	11		0.55	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1
Zinc	33		2.2	0.96	mg/Kg	☆	01/17/25 16:57	01/21/25 13:07	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.56		0.40	0.20	mg/L		01/20/25 08:44	01/21/25 00:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/25 08:44	01/21/25 00:29	1
Manganese	1.5		0.025	0.010	mg/L		01/20/25 08:44	01/21/25 00:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B26-1

Lab Sample ID: 500-262789-13

Date Collected: 01/15/25 11:00

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 88.8

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.037	J	0.050	0.010	mg/L		01/20/25 08:46	01/21/25 02:56	1
Barium	0.16	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 02:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 02:56	1
Boron	0.11		0.10	0.050	mg/L		01/20/25 08:46	01/21/25 02:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 02:56	1
Calcium	19		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:56	1
Chromium	0.049		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:56	1
Cobalt	0.028		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:56	1
Iron	52		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 02:56	1
Lead	0.069		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 02:56	1
Manganese	0.44		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:56	1
Nickel	0.071		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:56	1
Potassium	9.5		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 02:56	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 02:56	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 02:56	1
Zinc	0.20	J	0.50	0.020	mg/L		01/20/25 08:46	01/21/25 15:42	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0020	J	0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 15:04	1
Thallium	0.0014	J	0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 15:04	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0073	mg/Kg	✱	01/24/25 15:00	01/27/25 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24	0.12	mg/Kg	✱	01/19/25 11:13	01/19/25 13:24	1
pH (SW846 9045D)	8.9		0.2	0.2	SU			01/17/25 13:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B26-2

Lab Sample ID: 500-262789-14

Date Collected: 01/15/25 11:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 87.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00086	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00080	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
1,1-Dichloroethane	<0.0021		0.0021	0.00080	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
1,1-Dichloroethene	<0.0021		0.0021	0.00088	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
1,2-Dichloroethane	<0.0053		0.0053	0.0014	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
2-Butanone (MEK)	<0.0053		0.0053	0.0023	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
2-Hexanone	<0.0053		0.0053	0.0032	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0038	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Acetone	<0.021		0.021	0.0090	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Benzene	<0.0021		0.0021	0.00067	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Bromodichloromethane	<0.0021		0.0021	0.00068	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Bromoform	<0.0021		0.0021	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Bromomethane	<0.0053		0.0053	0.0026	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Carbon disulfide	<0.0053		0.0053	0.00098	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Carbon tetrachloride	<0.0021		0.0021	0.00073	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Chlorobenzene	<0.0021		0.0021	0.00090	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Chloroethane	<0.0053		0.0053	0.0018	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Chloroform	<0.0021		0.0021	0.0015	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Chloromethane	<0.0053		0.0053	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00086	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00086	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Dibromochloromethane	<0.0021		0.0021	0.00099	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Ethylbenzene	<0.0021		0.0021	0.0011	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00069	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Methylene Chloride	<0.0053		0.0053	0.0023	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Styrene	<0.0021		0.0021	0.00096	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Tetrachloroethene	<0.0021		0.0021	0.0012	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Toluene	<0.0021		0.0021	0.00043	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00081	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.0010	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Trichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Vinyl chloride	<0.0021		0.0021	0.00087	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1
Xylenes, Total	<0.0043		0.0043	0.00073	mg/Kg	☆	01/16/25 18:15	01/17/25 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	01/16/25 18:15	01/17/25 21:09	1
4-Bromofluorobenzene (Surr)	99		75 - 131	01/16/25 18:15	01/17/25 21:09	1
Dibromofluoromethane (Surr)	101		75 - 126	01/16/25 18:15	01/17/25 21:09	1
Toluene-d8 (Surr)	98		75 - 124	01/16/25 18:15	01/17/25 21:09	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.27		0.27	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
1,2-Dichlorobenzene	<0.27		0.27	0.022	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
1,3-Dichlorobenzene	<0.27		0.27	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
1,4-Dichlorobenzene	<0.27		0.27	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2,2'-oxybis[1-chloropropane]	<0.27		0.27	0.038	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B26-2

Lab Sample ID: 500-262789-14

Date Collected: 01/15/25 11:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 87.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.53		0.53	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2,4,6-Trichlorophenol	<0.53		0.53	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2,4-Dichlorophenol	<0.53		0.53	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2,4-Dimethylphenol	<0.53		0.53	0.12	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2,4-Dinitrophenol	<1.1		1.1	0.31	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2,4-Dinitrotoluene	<0.27		0.27	0.030	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2,6-Dinitrotoluene	<0.27		0.27	0.018	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2-Chloronaphthalene	<0.27		0.27	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2-Chlorophenol	<0.27		0.27	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2-Methylnaphthalene	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2-Methylphenol	<0.27		0.27	0.028	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2-Nitroaniline	<0.27		0.27	0.029	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
2-Nitrophenol	<0.53		0.53	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
3 & 4 Methylphenol	<0.27		0.27	0.039	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
3,3'-Dichlorobenzidine	<0.27		0.27	0.044	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
3-Nitroaniline	<0.53		0.53	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
4,6-Dinitro-2-methylphenol	<1.1		1.1	0.30	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
4-Bromophenyl phenyl ether	<0.27		0.27	0.036	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
4-Chloro-3-methylphenol	<0.53		0.53	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
4-Chloroaniline	<1.1		1.1	0.56	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
4-Chlorophenyl phenyl ether	<0.27		0.27	0.070	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
4-Nitroaniline	<0.53		0.53	0.039	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
4-Nitrophenol	<1.1		1.1	0.20	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Acenaphthene	<0.053		0.053	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Acenaphthylene	<0.053		0.053	0.0090	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Anthracene	<0.053		0.053	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Benzo[a]anthracene	0.012 J		0.053	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Benzo[a]pyrene	<0.053		0.053	0.051	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Benzo[b]fluoranthene	<0.053		0.053	0.051	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Benzo[g,h,i]perylene	<0.053		0.053	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Benzo[k]fluoranthene	<0.053		0.053	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Bis(2-chloroethoxy)methane	<0.27		0.27	0.020	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Bis(2-chloroethyl)ether	<0.27		0.27	0.025	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Bis(2-ethylhexyl) phthalate	<0.27		0.27	0.21	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Butyl benzyl phthalate	<0.27		0.27	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Carbazole	<0.27		0.27	0.021	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Chrysene	<0.053		0.053	0.014	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Dibenz(a,h)anthracene	<0.053		0.053	0.053	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Dibenzofuran	<0.27		0.27	0.019	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Diethyl phthalate	<0.27		0.27	0.024	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Dimethyl phthalate	<0.27		0.27	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Di-n-butyl phthalate	<0.27		0.27	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Di-n-octyl phthalate	<0.53		0.53	0.37	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Fluoranthene	<0.053		0.053	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Fluorene	<0.053		0.053	0.016	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Hexachlorobenzene	<0.11		0.11	0.010	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Hexachlorobutadiene	<0.27		0.27	0.030	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Hexachlorocyclopentadiene	<1.1		1.1	0.57	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Hexachloroethane	<0.27		0.27	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B26-2

Lab Sample ID: 500-262789-14

Date Collected: 01/15/25 11:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 87.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.053		0.053	0.052	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Isophorone	<0.27		0.27	0.027	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Naphthalene	<0.053		0.053	0.0096	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Nitrobenzene	<0.053		0.053	0.017	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
N-Nitrosodi-n-propylamine	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
N-Nitrosodiphenylamine	<0.27		0.27	0.032	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Pentachlorophenol	<1.1		1.1	0.13	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Phenanthrene	<0.053		0.053	0.012	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Phenol	<0.27		0.27	0.023	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1
Pyrene	<0.053		0.053	0.015	mg/Kg	☆	01/17/25 14:34	01/20/25 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		31 - 143	01/17/25 14:34	01/20/25 18:08	1
2-Fluorobiphenyl (Surr)	88		43 - 145	01/17/25 14:34	01/20/25 18:08	1
2-Fluorophenol (Surr)	87		31 - 166	01/17/25 14:34	01/20/25 18:08	1
Nitrobenzene-d5 (Surr)	86		37 - 147	01/17/25 14:34	01/20/25 18:08	1
Phenol-d5 (Surr)	88		30 - 153	01/17/25 14:34	01/20/25 18:08	1
Terphenyl-d14 (Surr)	102		42 - 157	01/17/25 14:34	01/20/25 18:08	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.41	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Arsenic	6.9		1.1	0.36	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Barium	12		1.1	0.12	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Beryllium	0.18	J	0.42	0.099	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Boron	3.0	J	5.3	0.49	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Cadmium	<0.21		0.21	0.038	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Calcium	1000	B	21	3.6	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Chromium	6.8		1.1	0.53	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Cobalt	6.4		0.53	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Copper	4.2		1.1	0.30	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Iron	8900		21	11	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Lead	7.3		0.53	0.25	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Magnesium	1100		11	5.3	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Manganese	67		1.1	0.15	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Nickel	9.0		1.1	0.31	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Potassium	500		53	19	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Selenium	<1.1		1.1	0.62	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Silver	<0.53		0.53	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Sodium	480	B	110	16	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Thallium	<1.1		1.1	0.53	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Vanadium	10		0.53	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1
Zinc	30		2.1	0.93	mg/Kg	☆	01/17/25 16:57	01/21/25 13:11	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13		0.40	0.20	mg/L		01/20/25 08:44	01/21/25 00:33	1
Lead	0.0092		0.0075	0.0075	mg/L		01/20/25 08:44	01/21/25 00:33	1
Manganese	0.21		0.025	0.010	mg/L		01/20/25 08:44	01/21/25 00:33	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B26-2

Lab Sample ID: 500-262789-14

Date Collected: 01/15/25 11:10

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 87.6

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.036	J	0.050	0.010	mg/L		01/20/25 08:46	01/21/25 03:01	1
Barium	0.071	J	0.50	0.050	mg/L		01/20/25 08:46	01/21/25 03:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/25 08:46	01/21/25 03:01	1
Boron	0.18		0.10	0.050	mg/L		01/20/25 08:46	01/21/25 03:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/25 08:46	01/21/25 03:01	1
Calcium	3.9		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 03:01	1
Chromium	0.029		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 03:01	1
Cobalt	0.024	J	0.025	0.010	mg/L		01/20/25 08:46	01/21/25 03:01	1
Iron	40		0.40	0.20	mg/L		01/20/25 08:46	01/21/25 03:01	1
Lead	0.028		0.0075	0.0075	mg/L		01/20/25 08:46	01/21/25 03:01	1
Manganese	0.17		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 03:01	1
Nickel	0.034		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 03:01	1
Potassium	3.5		2.5	0.50	mg/L		01/20/25 08:46	01/21/25 03:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/25 08:46	01/21/25 03:01	1
Silver	<0.025		0.025	0.010	mg/L		01/20/25 08:46	01/21/25 03:01	1
Zinc	0.12	J	0.50	0.020	mg/L		01/20/25 08:46	01/21/25 15:47	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/20/25 08:46	01/22/25 15:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/20/25 08:46	01/22/25 15:08	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/22/25 10:35	01/23/25 10:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.018	0.0076	mg/Kg	☆	01/24/25 15:00	01/27/25 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.13	mg/Kg	☆	01/19/25 11:13	01/19/25 13:30	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			01/17/25 13:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B33

Lab Sample ID: 500-262789-22

Date Collected: 01/15/25 12:30

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 92.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00088	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.0011	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00082	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
1,1-Dichloroethane	<0.0022		0.0022	0.00082	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
1,1-Dichloroethene	<0.0022		0.0022	0.00090	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
1,2-Dichloroethane	<0.0054		0.0054	0.0014	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.0010	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
2-Hexanone	<0.0054		0.0054	0.0033	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0039	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Acetone	<0.022		0.022	0.0091	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Benzene	<0.0022		0.0022	0.00068	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Bromodichloromethane	<0.0022		0.0022	0.00070	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Bromoform	<0.0022		0.0022	0.0013	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Bromomethane	<0.0054		0.0054	0.0027	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Carbon disulfide	<0.0054		0.0054	0.0010	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Carbon tetrachloride	<0.0022		0.0022	0.00074	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Chlorobenzene	<0.0022		0.0022	0.00092	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Chloroethane	<0.0054		0.0054	0.0018	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Chloroform	<0.0022		0.0022	0.0016	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00088	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00087	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Dibromochloromethane	<0.0022		0.0022	0.0010	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00070	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Methylene Chloride	<0.0054		0.0054	0.0023	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Styrene	<0.0022		0.0022	0.00098	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Tetrachloroethene	<0.0022		0.0022	0.0012	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Toluene	<0.0022		0.0022	0.00044	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00082	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.0010	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Trichloroethene	<0.0022		0.0022	0.00059	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Vinyl chloride	<0.0022		0.0022	0.00089	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1
Xylenes, Total	<0.0044		0.0044	0.00075	mg/Kg	☆	01/16/25 18:15	01/23/25 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/16/25 18:15	01/23/25 15:26	1
4-Bromofluorobenzene (Surr)	98		75 - 131	01/16/25 18:15	01/23/25 15:26	1
Dibromofluoromethane (Surr)	98		75 - 126	01/16/25 18:15	01/23/25 15:26	1
Toluene-d8 (Surr)	98		75 - 124	01/16/25 18:15	01/23/25 15:26	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.51		0.51	0.073	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
1,2-Dichlorobenzene	<0.51		0.51	0.042	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
1,3-Dichlorobenzene	<0.51		0.51	0.046	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
1,4-Dichlorobenzene	<0.51		0.51	0.048	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2,2'-oxybis[1-chloropropane]	<0.51		0.51	0.073	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B33

Lab Sample ID: 500-262789-22

Date Collected: 01/15/25 12:30

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1.0		1.0	0.038	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2,4,6-Trichlorophenol	<1.0		1.0	0.035	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2,4-Dichlorophenol	<1.0		1.0	0.036	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2,4-Dimethylphenol	<1.0		1.0	0.23	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2,4-Dinitrophenol	<2.1		2.1	0.59	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2,4-Dinitrotoluene	<0.51		0.51	0.058	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2,6-Dinitrotoluene	<0.51		0.51	0.035	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2-Chloronaphthalene	<0.51		0.51	0.038	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2-Chlorophenol	<0.51		0.51	0.033	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2-Methylnaphthalene	<0.21		0.21	0.020	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2-Methylphenol	<0.51		0.51	0.054	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2-Nitroaniline	<0.51		0.51	0.055	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
2-Nitrophenol	<1.0		1.0	0.069	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
3 & 4 Methylphenol	<0.51		0.51	0.075	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
3,3'-Dichlorobenzidine	<0.51		0.51	0.083	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
3-Nitroaniline	<1.0		1.0	0.046	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
4,6-Dinitro-2-methylphenol	<2.1		2.1	0.58	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
4-Bromophenyl phenyl ether	<0.51		0.51	0.070	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
4-Chloro-3-methylphenol	<1.0		1.0	0.040	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
4-Chloroaniline	<2.1		2.1	1.1	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
4-Chlorophenyl phenyl ether	<0.51		0.51	0.13	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
4-Nitroaniline	<1.0		1.0	0.075	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
4-Nitrophenol	<2.1		2.1	0.38	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Acenaphthene	<0.10		0.10	0.021	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Acenaphthylene	<0.10		0.10	0.017	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Anthracene	<0.10		0.10	0.021	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Benzo[a]anthracene	<0.10		0.10	0.022	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Benzo[a]pyrene	<0.10		0.10	0.098	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Benzo[b]fluoranthene	<0.10		0.10	0.097	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Benzo[g,h,i]perylene	<0.10		0.10	0.022	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Benzo[k]fluoranthene	<0.10		0.10	0.039	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Bis(2-chloroethoxy)methane	<0.51		0.51	0.038	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Bis(2-chloroethyl)ether	<0.51		0.51	0.047	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Bis(2-ethylhexyl) phthalate	<0.51		0.51	0.40	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Butyl benzyl phthalate	<0.51		0.51	0.051	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Carbazole	<0.51		0.51	0.040	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Chrysene	<0.10		0.10	0.027	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Dibenz(a,h)anthracene	<0.10		0.10	0.10	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Dibenzofuran	<0.51		0.51	0.036	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Diethyl phthalate	<0.51		0.51	0.047	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Dimethyl phthalate	<0.51		0.51	0.022	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Di-n-butyl phthalate	<0.51		0.51	0.032	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Di-n-octyl phthalate	<1.0		1.0	0.71	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Fluoranthene	0.027	J	0.10	0.024	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Fluorene	<0.10		0.10	0.030	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Hexachlorobenzene	<0.21		0.21	0.020	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Hexachlorobutadiene	<0.51		0.51	0.058	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Hexachlorocyclopentadiene	<2.1		2.1	1.1	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Hexachloroethane	<0.51		0.51	0.051	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B33

Lab Sample ID: 500-262789-22

Date Collected: 01/15/25 12:30

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.10		0.10	0.099	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Isophorone	<0.51		0.51	0.053	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Naphthalene	<0.10		0.10	0.018	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Nitrobenzene	<0.10		0.10	0.032	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
N-Nitrosodi-n-propylamine	<0.21		0.21	0.020	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
N-Nitrosodiphenylamine	<0.51		0.51	0.061	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Pentachlorophenol	<2.1		2.1	0.26	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Phenanthrene	<0.10		0.10	0.022	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Phenol	<0.51		0.51	0.044	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2
Pyrene	<0.10		0.10	0.028	mg/Kg	☆	01/17/25 14:31	01/20/25 19:19	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		31 - 143	01/17/25 14:31	01/20/25 19:19	2
2-Fluorobiphenyl (Surr)	77		43 - 145	01/17/25 14:31	01/20/25 19:19	2
2-Fluorophenol (Surr)	74		31 - 166	01/17/25 14:31	01/20/25 19:19	2
Nitrobenzene-d5 (Surr)	71		37 - 147	01/17/25 14:31	01/20/25 19:19	2
Phenol-d5 (Surr)	73		30 - 153	01/17/25 14:31	01/20/25 19:19	2
Terphenyl-d14 (Surr)	82		42 - 157	01/17/25 14:31	01/20/25 19:19	2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.8		1.8	0.36	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Arsenic	1.9		0.92	0.31	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Barium	10		0.92	0.10	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Beryllium	0.093	J	0.37	0.086	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Boron	2.5	J	4.6	0.43	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Cadmium	0.15	J	0.18	0.033	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Calcium	15000	B	18	3.1	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Chromium	3.8		0.92	0.46	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Cobalt	2.7		0.46	0.12	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Copper	5.1		0.92	0.26	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Iron	4400		18	9.6	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Lead	18		0.46	0.21	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Magnesium	7200		9.2	4.6	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Manganese	76		0.92	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Nickel	4.5		0.92	0.27	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Potassium	340		46	16	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Selenium	<0.92		0.92	0.54	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Silver	<0.46		0.46	0.12	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Sodium	160	B	92	14	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Thallium	<0.92		0.92	0.46	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Vanadium	5.6		0.46	0.11	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1
Zinc	22		1.8	0.81	mg/Kg	☆	01/17/25 16:57	01/21/25 13:55	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.093		0.0075	0.0075	mg/L	—	01/21/25 07:26	01/21/25 18:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B33

Lab Sample ID: 500-262789-22

Date Collected: 01/15/25 12:30

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 92.8

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/25 07:29	01/21/25 19:35	1
Barium	<0.50		0.50	0.050	mg/L		01/21/25 07:29	01/21/25 19:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/25 07:29	01/21/25 19:35	1
Boron	<0.10		0.10	0.050	mg/L		01/21/25 07:29	01/21/25 19:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/25 07:29	01/21/25 19:35	1
Calcium	7.3	B	2.5	0.50	mg/L		01/21/25 07:29	01/21/25 19:35	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:35	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:35	1
Iron	4.4		0.40	0.20	mg/L		01/21/25 07:29	01/21/25 19:35	1
Lead	0.024		0.0075	0.0075	mg/L		01/21/25 07:29	01/21/25 19:35	1
Manganese	0.048		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:35	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:35	1
Potassium	1.9	J	2.5	0.50	mg/L		01/21/25 07:29	01/21/25 19:35	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/25 07:29	01/21/25 19:35	1
Silver	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:35	1
Zinc	0.032	J	0.50	0.020	mg/L		01/21/25 07:29	01/21/25 19:35	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/21/25 07:29	01/22/25 18:55	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/21/25 07:29	01/22/25 18:55	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/23/25 14:20	01/24/25 10:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0069	mg/Kg	✱	01/24/25 15:00	01/27/25 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.12	mg/Kg	✱	01/20/25 11:11	01/21/25 10:46	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			01/17/25 13:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B34

Lab Sample ID: 500-262789-23

Date Collected: 01/15/25 12:40

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00069	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00084	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00064	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
1,1-Dichloroethane	<0.0017		0.0017	0.00064	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
1,1-Dichloroethene	<0.0017		0.0017	0.00070	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
1,2-Dichloroethane	<0.0043		0.0043	0.0011	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00082	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
2-Hexanone	<0.0043		0.0043	0.0026	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0030	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Acetone	<0.017		0.017	0.0071	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Benzene	<0.0017		0.0017	0.00053	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Bromodichloromethane	<0.0017		0.0017	0.00055	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Bromoform	<0.0017		0.0017	0.00099	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Bromomethane	<0.0043		0.0043	0.0021	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Carbon disulfide	<0.0043		0.0043	0.00078	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Carbon tetrachloride	<0.0017		0.0017	0.00058	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Chlorobenzene	<0.0017		0.0017	0.00072	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Chloroethane	<0.0043		0.0043	0.0014	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Chloroform	<0.0017		0.0017	0.0012	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Chloromethane	<0.0043		0.0043	0.00082	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00069	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00068	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Dibromochloromethane	<0.0017		0.0017	0.00079	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Ethylbenzene	<0.0017		0.0017	0.00089	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00055	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Methylene Chloride	<0.0043		0.0043	0.0018	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Styrene	<0.0017		0.0017	0.00076	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Tetrachloroethene	<0.0017		0.0017	0.00095	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Toluene	<0.0017		0.0017	0.00034	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00064	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00082	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Trichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Vinyl chloride	<0.0017		0.0017	0.00069	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1
Xylenes, Total	<0.0034		0.0034	0.00058	mg/Kg	☆	01/16/25 18:15	01/23/25 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	01/16/25 18:15	01/23/25 15:51	1
4-Bromofluorobenzene (Surr)	102		75 - 131	01/16/25 18:15	01/23/25 15:51	1
Dibromofluoromethane (Surr)	100		75 - 126	01/16/25 18:15	01/23/25 15:51	1
Toluene-d8 (Surr)	97		75 - 124	01/16/25 18:15	01/23/25 15:51	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.28		0.28	0.040	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
1,2-Dichlorobenzene	<0.28		0.28	0.023	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
1,3-Dichlorobenzene	<0.28		0.28	0.026	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
1,4-Dichlorobenzene	<0.28		0.28	0.027	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2,2'-oxybis[1-chloropropane]	<0.28		0.28	0.041	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B34

Lab Sample ID: 500-262789-23

Date Collected: 01/15/25 12:40

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 84.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.56		0.56	0.021	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2,4,6-Trichlorophenol	<0.56		0.56	0.019	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2,4-Dichlorophenol	<0.56		0.56	0.020	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2,4-Dimethylphenol	<0.56		0.56	0.13	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2,4-Dinitrophenol	<1.1		1.1	0.33	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2,4-Dinitrotoluene	<0.28		0.28	0.032	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2,6-Dinitrotoluene	<0.28		0.28	0.019	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2-Chloronaphthalene	<0.28		0.28	0.021	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2-Chlorophenol	<0.28		0.28	0.018	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2-Methylnaphthalene	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2-Methylphenol	<0.28		0.28	0.030	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2-Nitroaniline	<0.28		0.28	0.030	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
2-Nitrophenol	<0.56		0.56	0.038	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
3 & 4 Methylphenol	<0.28		0.28	0.041	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
3,3'-Dichlorobenzidine	<0.28		0.28	0.046	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
3-Nitroaniline	<0.56		0.56	0.026	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
4,6-Dinitro-2-methylphenol	<1.1		1.1	0.32	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
4-Bromophenyl phenyl ether	<0.28		0.28	0.039	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
4-Chloro-3-methylphenol	<0.56		0.56	0.022	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
4-Chloroaniline	<1.1		1.1	0.59	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
4-Chlorophenyl phenyl ether	<0.28		0.28	0.074	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
4-Nitroaniline	<0.56		0.56	0.042	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
4-Nitrophenol	<1.1		1.1	0.21	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Acenaphthene	<0.056		0.056	0.011	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Acenaphthylene	<0.056		0.056	0.0096	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Anthracene	<0.056		0.056	0.012	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Benzo[a]anthracene	<0.056		0.056	0.012	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Benzo[a]pyrene	<0.056		0.056	0.054	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Benzo[b]fluoranthene	<0.056		0.056	0.054	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Benzo[g,h,i]perylene	<0.056		0.056	0.012	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Benzo[k]fluoranthene	<0.056		0.056	0.021	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Bis(2-chloroethoxy)methane	<0.28		0.28	0.021	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Bis(2-chloroethyl)ether	<0.28		0.28	0.026	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Bis(2-ethylhexyl) phthalate	<0.28		0.28	0.22	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Butyl benzyl phthalate	<0.28		0.28	0.028	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Carbazole	<0.28		0.28	0.022	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Chrysene	<0.056		0.056	0.015	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Dibenz(a,h)anthracene	<0.056		0.056	0.056	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Dibenzofuran	<0.28		0.28	0.020	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Diethyl phthalate	<0.28		0.28	0.026	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Dimethyl phthalate	<0.28		0.28	0.012	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Di-n-butyl phthalate	<0.28		0.28	0.018	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Di-n-octyl phthalate	<0.56		0.56	0.40	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Fluoranthene	<0.056		0.056	0.013	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Fluorene	<0.056		0.056	0.017	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Hexachlorobenzene	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Hexachlorobutadiene	<0.28		0.28	0.032	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Hexachlorocyclopentadiene	<1.1		1.1	0.60	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Hexachloroethane	<0.28		0.28	0.028	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B34

Lab Sample ID: 500-262789-23

Date Collected: 01/15/25 12:40

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 84.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.056		0.056	0.055	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Isophorone	<0.28		0.28	0.029	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Naphthalene	<0.056		0.056	0.010	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Nitrobenzene	<0.056		0.056	0.018	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
N-Nitrosodi-n-propylamine	<0.11		0.11	0.011	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
N-Nitrosodiphenylamine	<0.28		0.28	0.034	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Pentachlorophenol	<1.1		1.1	0.14	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Phenanthrene	<0.056		0.056	0.012	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Phenol	<0.28		0.28	0.025	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1
Pyrene	<0.056		0.056	0.015	mg/Kg	☆	01/17/25 14:31	01/20/25 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		31 - 143	01/17/25 14:31	01/20/25 19:43	1
2-Fluorobiphenyl (Surr)	80		43 - 145	01/17/25 14:31	01/20/25 19:43	1
2-Fluorophenol (Surr)	79		31 - 166	01/17/25 14:31	01/20/25 19:43	1
Nitrobenzene-d5 (Surr)	76		37 - 147	01/17/25 14:31	01/20/25 19:43	1
Phenol-d5 (Surr)	76		30 - 153	01/17/25 14:31	01/20/25 19:43	1
Terphenyl-d14 (Surr)	94		42 - 157	01/17/25 14:31	01/20/25 19:43	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.42	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Arsenic	2.5		1.1	0.37	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Barium	23		1.1	0.12	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Beryllium	0.41	J	0.43	0.10	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Boron	8.2		5.4	0.50	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Cadmium	0.16	J	0.22	0.039	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Calcium	29000	B	22	3.7	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Chromium	12		1.1	0.53	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Cobalt	5.4		0.54	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Copper	13		1.1	0.30	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Iron	8600		22	11	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Lead	12		0.54	0.25	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Magnesium	16000		11	5.4	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Manganese	150		1.1	0.16	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Nickel	15		1.1	0.31	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Potassium	1200		54	19	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Selenium	<1.1		1.1	0.64	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Silver	<0.54		0.54	0.14	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Sodium	300	B	110	16	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Thallium	0.57	J	1.1	0.54	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Vanadium	16		0.54	0.13	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1
Zinc	49		2.2	0.95	mg/Kg	☆	01/17/25 16:57	01/21/25 13:59	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/25 07:26	01/21/25 18:05	1
Iron	5.3		0.40	0.20	mg/L		01/21/25 07:26	01/21/25 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/25 07:26	01/21/25 18:05	1
Manganese	1.1		0.025	0.010	mg/L		01/21/25 07:26	01/21/25 18:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

Client Sample ID: 4231-1-B34

Lab Sample ID: 500-262789-23

Date Collected: 01/15/25 12:40

Matrix: Solid

Date Received: 01/16/25 13:05

Percent Solids: 84.3

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.039	J	0.050	0.010	mg/L		01/21/25 07:29	01/21/25 19:40	1
Barium	0.21	J	0.50	0.050	mg/L		01/21/25 07:29	01/21/25 19:40	1
Beryllium	0.0042		0.0040	0.0040	mg/L		01/21/25 07:29	01/21/25 19:40	1
Boron	0.14		0.10	0.050	mg/L		01/21/25 07:29	01/21/25 19:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/25 07:29	01/21/25 19:40	1
Calcium	22	B	2.5	0.50	mg/L		01/21/25 07:29	01/21/25 19:40	1
Chromium	0.10		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:40	1
Cobalt	0.038		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:40	1
Iron	100		0.40	0.20	mg/L		01/21/25 07:29	01/21/25 19:40	1
Lead	0.084		0.0075	0.0075	mg/L		01/21/25 07:29	01/21/25 19:40	1
Manganese	0.29		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:40	1
Nickel	0.098		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:40	1
Potassium	20		2.5	0.50	mg/L		01/21/25 07:29	01/21/25 19:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/25 07:29	01/21/25 19:40	1
Silver	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:40	1
Zinc	0.26	J	0.50	0.020	mg/L		01/21/25 07:29	01/21/25 19:40	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0021	J	0.0060	0.0013	mg/L		01/21/25 07:29	01/22/25 19:11	1
Thallium	0.0020		0.0020	0.00057	mg/L		01/21/25 07:29	01/22/25 19:11	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/23/25 14:20	01/24/25 10:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0074	mg/Kg	⚠	01/24/25 15:00	01/27/25 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	⚠	01/20/25 11:11	01/21/25 10:48	1
pH (SW846 9045D)	8.0		0.2	0.2	SU			01/17/25 13:28	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

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.
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
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.

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)

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262789-1

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 - AE8-040A

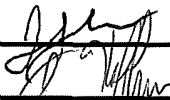
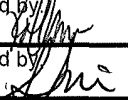
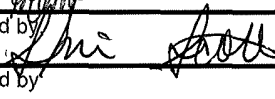
Job ID: 500-262789-1

Laboratory: Eurofins Chicago

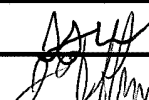
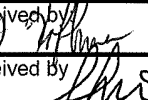
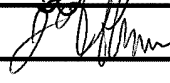
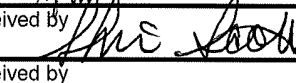
Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com & datamanagement@andrews-eng.com					 500-262789 COC		Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com					Project Name <u>AEF-0410A</u> Project No <u>PTB/WO #195-002-40A</u> TAT ☐ 15 BD ☒ 10 BD ☐ 5 BD ☐ 2 BD ☐ Other Sampler:					COC No <u>1</u> of <u>2</u> Lab Job No. <u>500-262789</u> Sample Test <u>41-73738-734</u> Matrix Key:		
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide					ANALYSES										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	4231-1-B08	1/15	0900	S	X	X					X	X	X	X	X				
2	4231-1-B07	1/15	0910	S															
3	4231-1-B06	1/15	0920	S															
4	4231-1-B05-1	1/15	0930	S															
5	4231-1-B05-2	1/15	0940	S															
6	4231-1-B03	1/15	0950	S															
7	4231-1-B04	1/15	1000	S															
8	4231-1-B02	1/15	1010	S															
9	4231-1-B01	1/15	1020	S															
10	4231-1-B25-1	1/15	1030	S															
11	4231-1-B25-2	1/15	1040	S															
12	4231-1-B25-3	1/15	1050	S															
Relinquished by 					Date/Time <u>1/16/25 1215</u>					Received by 					Date/Time <u>1/16/25 1215</u>				
Relinquished by 					Date/Time <u>1/16/25 1305</u>					Received by 					Date/Time <u>1/16/25 1305</u>				
Relinquished by					Date/Time					Received by					Date/Time				

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 & datamanagement@andrews-eng.com					Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com					Project Name <u>AE8-040A</u> Project No <u>PTB / WO #18-002 / 40A</u> TAT ☐ 15 BD ☒ 10 BD ☐ 5 BD ☐ 2 BD ☐ Other Sampler:					COC No <u>2</u> of <u>2</u> Lab Job No. <u>580-262789</u> Sample Temp.						
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter *** 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
13	4231-1-B26-1	1/15	1100	S	X	X					X	X	X	X	X						
14	4231-1-B26-2	1/15	1110	S																	
15	4231-1-B27-1	1/15	1120	S																	
16	4231-1-B27-2	1/15	1130	S																	
17	4231-1-B28-1	1/15	1140	S																	
18	4231-1-B28-2	1/15	1150	S																	
19	4231-1-B28-3	1/15	1200	S																	
20	4231-1-B29	1/15	1210	S																	
21	4231-1-B29 DUP	1/15	1220	S																	
22	4231-1-B33	1/15	1230	S																	
23	4231-1-B34	1/15	1240	S																	
24	TRIP Blank #3				X																
Relinquished by 					Date/Time 01/16/25 1215					Received by 					Date/Time 1/16/25 1215						
Relinquished by 					Date/Time 01/16/25 1305					Received by 					Date/Time 1/16/25 1305						
Relinquished by					Date/Time					Received by					Date/Time						

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 1/29/2025 6:51:46 PM

JOB DESCRIPTION

IDOT - AE8-040A

JOB NUMBER

500-262867-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Jodie Bracken, Project Manager I
Joann.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Client Sample ID: 4231-1-B21

Lab Sample ID: 500-262867-1

Date Collected: 01/16/25 09:00

Matrix: Solid

Date Received: 01/17/25 13:20

Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00071	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00087	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00066	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
1,1-Dichloroethane	<0.0018		0.0018	0.00066	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
1,1-Dichloroethene	<0.0018		0.0018	0.00072	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
1,2-Dichloroethane	<0.0044		0.0044	0.0011	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00084	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
2-Hexanone	<0.0044		0.0044	0.0027	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0031	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Acetone	<0.018		0.018	0.0074	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Benzene	<0.0018		0.0018	0.00055	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Bromodichloromethane	<0.0018		0.0018	0.00056	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Bromoform	<0.0018		0.0018	0.0010	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Bromomethane	<0.0044		0.0044	0.0022	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Carbon disulfide	<0.0044		0.0044	0.00081	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Carbon tetrachloride	<0.0018		0.0018	0.00060	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Chlorobenzene	<0.0018		0.0018	0.00074	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Chloroethane	<0.0044	+	0.0044	0.0014	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Chloroform	<0.0018		0.0018	0.0013	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Chloromethane	<0.0044	+	0.0044	0.00085	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00071	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00071	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Dibromochloromethane	<0.0018		0.0018	0.00081	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Ethylbenzene	<0.0018		0.0018	0.00092	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00057	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Methylene Chloride	<0.0044		0.0044	0.0019	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Styrene	<0.0018		0.0018	0.00079	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Tetrachloroethene	<0.0018		0.0018	0.00099	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Toluene	<0.0018		0.0018	0.00035	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00066	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00084	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Trichloroethene	<0.0018		0.0018	0.00048	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Vinyl chloride	<0.0018	+	0.0018	0.00072	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1
Xylenes, Total	<0.0035		0.0035	0.00060	mg/Kg	☆	01/17/25 17:51	01/20/25 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	01/17/25 17:51	01/20/25 12:39	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/17/25 17:51	01/20/25 12:39	1
Dibromofluoromethane (Surr)	104		75 - 126	01/17/25 17:51	01/20/25 12:39	1
Toluene-d8 (Surr)	108		75 - 124	01/17/25 17:51	01/20/25 12:39	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19	F1	0.19	0.027	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
1,2-Dichlorobenzene	<0.19	F1	0.19	0.015	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
1,3-Dichlorobenzene	<0.19	F1	0.19	0.017	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
1,4-Dichlorobenzene	<0.19	F1	0.19	0.018	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Client Sample ID: 4231-1-B21

Lab Sample ID: 500-262867-1

Date Collected: 01/16/25 09:00

Matrix: Solid

Date Received: 01/17/25 13:20

Percent Solids: 84.4

Method: SW846 8270E - 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	0.014	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2,4,6-Trichlorophenol	<0.38	F1 F2	0.38	0.013	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2,4-Dimethylphenol	<0.38	F1 F2	0.38	0.085	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2,4-Dinitrophenol	<0.76	F2	0.76	0.22	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2,4-Dinitrotoluene	<0.19	F1	0.19	0.022	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2,6-Dinitrotoluene	<0.19	F1	0.19	0.013	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2-Chloronaphthalene	<0.19	F1	0.19	0.014	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2-Chlorophenol	<0.19	F1	0.19	0.012	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2-Methylnaphthalene	<0.076	F1	0.076	0.0076	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2-Methylphenol	<0.19	F1 F2	0.19	0.020	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
2-Nitrophenol	<0.38	F1	0.38	0.026	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
3 & 4 Methylphenol	<0.19	F1 F2	0.19	0.028	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
3,3'-Dichlorobenzidine	<0.19	F2	0.19	0.031	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
4,6-Dinitro-2-methylphenol	<0.76	F2	0.76	0.21	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
4-Chloro-3-methylphenol	<0.38	F1	0.38	0.015	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
4-Nitroaniline	<0.38	F1	0.38	0.028	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Acenaphthylene	<0.038	F1	0.038	0.0064	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Anthracene	<0.038	F1	0.038	0.0077	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Benzo[a]anthracene	<0.038	F1	0.038	0.0080	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Benzo[a]pyrene	<0.038	F1	0.038	0.037	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Benzo[b]fluoranthene	<0.038	F1	0.038	0.036	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Benzo[g,h,i]perylene	<0.038	F1	0.038	0.0082	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Benzo[k]fluoranthene	<0.038	F1	0.038	0.014	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Bis(2-chloroethoxy)methane	<0.19	F1	0.19	0.014	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.15	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Butyl benzyl phthalate	<0.19	F1 F2	0.19	0.019	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Carbazole	<0.19	F1	0.19	0.015	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Chrysene	<0.038	F1	0.038	0.010	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Dibenz(a,h)anthracene	<0.038	F1	0.038	0.038	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Dibenzofuran	<0.19	F1	0.19	0.013	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Diethyl phthalate	<0.19	F1	0.19	0.017	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Dimethyl phthalate	<0.19	F1 F2	0.19	0.0082	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Di-n-butyl phthalate	<0.19	F1	0.19	0.012	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Di-n-octyl phthalate	<0.38	F1	0.38	0.26	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Hexachlorobenzene	<0.076		0.076	0.0073	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Hexachloroethane	<0.19	F1	0.19	0.019	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Client Sample ID: 4231-1-B21

Lab Sample ID: 500-262867-1

Date Collected: 01/16/25 09:00

Matrix: Solid

Date Received: 01/17/25 13:20

Percent Solids: 84.4

Method: SW846 8270E - 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	F1	0.038	0.037	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Naphthalene	<0.038	F1	0.038	0.0068	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0075	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
N-Nitrosodiphenylamine	<0.19	F1	0.19	0.022	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Pentachlorophenol	<0.76	F2	0.76	0.095	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Phenanthrene	<0.038		0.038	0.0082	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Phenol	<0.19	F1	0.19	0.016	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1
Pyrene	<0.038		0.038	0.010	mg/Kg	☆	01/20/25 14:19	01/21/25 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		31 - 143	01/20/25 14:19	01/21/25 16:32	1
2-Fluorobiphenyl (Surr)	71		43 - 145	01/20/25 14:19	01/21/25 16:32	1
2-Fluorophenol (Surr)	68		31 - 166	01/20/25 14:19	01/21/25 16:32	1
Nitrobenzene-d5 (Surr)	68		37 - 147	01/20/25 14:19	01/21/25 16:32	1
Phenol-d5 (Surr)	64		30 - 153	01/20/25 14:19	01/21/25 16:32	1
Terphenyl-d14 (Surr)	74		42 - 157	01/20/25 14:19	01/21/25 16:32	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.40	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Arsenic	8.1		1.0	0.36	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Barium	45		1.0	0.12	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Beryllium	0.77		0.42	0.097	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Boron	20		5.2	0.48	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Cadmium	0.10	J	0.21	0.037	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Calcium	51000	B	21	3.5	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Chromium	20		1.0	0.51	mg/Kg	☆	01/22/25 09:14	01/24/25 18:55	1
Cobalt	12		0.52	0.14	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Copper	20		1.0	0.29	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Iron	22000		21	11	mg/Kg	☆	01/22/25 09:14	01/28/25 19:10	1
Lead	13		0.52	0.24	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Magnesium	24000		10	5.2	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Manganese	370		1.0	0.15	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Nickel	30		1.0	0.30	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Potassium	3500	B	52	18	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Selenium	<1.0		1.0	0.61	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Silver	<0.52		0.52	0.13	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Sodium	3900		100	15	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Thallium	1.3		1.0	0.52	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Vanadium	25		0.52	0.12	mg/Kg	☆	01/22/25 09:14	01/23/25 14:39	1
Zinc	64		2.1	0.91	mg/Kg	☆	01/22/25 09:14	01/24/25 18:55	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/25 07:26	01/21/25 18:24	1
Beryllium	<0.020		0.020	0.020	mg/L		01/21/25 07:26	01/22/25 16:49	5
Chromium	<0.13		0.13	0.050	mg/L		01/21/25 07:26	01/22/25 16:49	5
Iron	<2.0		2.0	1.0	mg/L		01/21/25 07:26	01/22/25 16:49	5

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Client Sample ID: 4231-1-B21

Lab Sample ID: 500-262867-1

Date Collected: 01/16/25 09:00

Matrix: Solid

Date Received: 01/17/25 13:20

Percent Solids: 84.4

Method: SW846 6010D - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/25 07:26	01/21/25 18:24	1
Manganese	3.3		0.025	0.010	mg/L		01/21/25 07:26	01/21/25 18:24	1
Nickel	0.015	J B	0.025	0.010	mg/L		01/21/25 07:26	01/21/25 18:24	1

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.064		0.050	0.010	mg/L		01/21/25 07:29	01/21/25 18:31	1
Barium	0.49	J	0.50	0.050	mg/L		01/21/25 07:29	01/21/25 18:31	1
Beryllium	0.0069		0.0040	0.0040	mg/L		01/21/25 07:29	01/21/25 18:31	1
Boron	0.23		0.10	0.050	mg/L		01/21/25 07:29	01/21/25 18:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/25 07:29	01/21/25 18:31	1
Calcium	44		2.5	0.50	mg/L		01/21/25 07:29	01/21/25 18:31	1
Chromium	0.16		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 18:31	1
Cobalt	0.063		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 18:31	1
Iron	150		0.40	0.20	mg/L		01/21/25 07:29	01/21/25 18:31	1
Lead	0.067		0.0075	0.0075	mg/L		01/21/25 07:29	01/21/25 18:31	1
Manganese	1.4		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 18:31	1
Nickel	0.18		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 18:31	1
Potassium	39	F1	2.5	0.50	mg/L		01/21/25 07:29	01/21/25 18:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/25 07:29	01/21/25 18:31	1
Silver	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 18:31	1
Zinc	0.36	J	0.50	0.020	mg/L		01/21/25 07:29	01/21/25 18:31	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		01/21/25 07:26	01/22/25 19:53	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	J F1	0.0060	0.0013	mg/L		01/21/25 07:29	01/22/25 17:53	1
Thallium	0.0023		0.0020	0.00057	mg/L		01/21/25 07:29	01/22/25 17:53	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/23/25 14:20	01/24/25 10:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0078	mg/Kg	☆	01/24/25 15:00	01/27/25 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	☆	01/20/25 11:11	01/21/25 11:06	1
pH (SW846 9045D)	7.2		0.2	0.2	SU			01/21/25 09:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Client Sample ID: 4231-1-B17

Lab Sample ID: 500-262867-6

Date Collected: 01/16/25 10:40

Matrix: Solid

Date Received: 01/17/25 13:20

Percent Solids: 79.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00063	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00077	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00058	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
1,1-Dichloroethane	<0.0015		0.0015	0.00058	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
1,1-Dichloroethene	<0.0015		0.0015	0.00064	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
1,2-Dichloroethane	<0.0039		0.0039	0.0010	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00074	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
2-Hexanone	<0.0039		0.0039	0.0023	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0027	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Acetone	<0.015		0.015	0.0065	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Benzene	<0.0015		0.0015	0.00049	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Bromodichloromethane	<0.0015		0.0015	0.00050	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Bromoform	<0.0015		0.0015	0.00090	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Bromomethane	<0.0039		0.0039	0.0019	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Carbon disulfide	<0.0039		0.0039	0.00071	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Carbon tetrachloride	<0.0015		0.0015	0.00053	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Chlorobenzene	<0.0015		0.0015	0.00065	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Chloroethane	<0.0039	+	0.0039	0.0013	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Chloroform	<0.0015		0.0015	0.0011	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Chloromethane	<0.0039	+	0.0039	0.00075	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00062	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00062	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Dibromochloromethane	<0.0015		0.0015	0.00072	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Ethylbenzene	<0.0015		0.0015	0.00081	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00050	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Styrene	<0.0015		0.0015	0.00069	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Tetrachloroethene	<0.0015		0.0015	0.00087	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Toluene	<0.0015		0.0015	0.00031	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00058	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00074	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Trichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Vinyl chloride	<0.0015	+	0.0015	0.00063	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1
Xylenes, Total	<0.0031		0.0031	0.00053	mg/Kg	☆	01/17/25 17:51	01/20/25 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/17/25 17:51	01/20/25 14:43	1
4-Bromofluorobenzene (Surr)	99		75 - 131	01/17/25 17:51	01/20/25 14:43	1
Dibromofluoromethane (Surr)	103		75 - 126	01/17/25 17:51	01/20/25 14:43	1
Toluene-d8 (Surr)	107		75 - 124	01/17/25 17:51	01/20/25 14:43	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.29		0.29	0.042	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
1,2-Dichlorobenzene	<0.29		0.29	0.024	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
1,3-Dichlorobenzene	<0.29		0.29	0.026	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
1,4-Dichlorobenzene	<0.29		0.29	0.028	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2,2'-oxybis[1-chloropropane]	<0.29		0.29	0.042	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Client Sample ID: 4231-1-B17

Lab Sample ID: 500-262867-6

Date Collected: 01/16/25 10:40

Matrix: Solid

Date Received: 01/17/25 13:20

Percent Solids: 79.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.58		0.58	0.022	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2,4,6-Trichlorophenol	<0.58		0.58	0.020	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2,4-Dichlorophenol	<0.58		0.58	0.021	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2,4-Dimethylphenol	<0.58		0.58	0.13	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2,4-Dinitrophenol	<1.2		1.2	0.34	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2,4-Dinitrotoluene	<0.29		0.29	0.033	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2,6-Dinitrotoluene	<0.29		0.29	0.020	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2-Chloronaphthalene	<0.29		0.29	0.022	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2-Chlorophenol	<0.29		0.29	0.019	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2-Methylnaphthalene	<0.12		0.12	0.012	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2-Methylphenol	<0.29		0.29	0.031	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2-Nitroaniline	<0.29		0.29	0.031	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
2-Nitrophenol	<0.58		0.58	0.040	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
3 & 4 Methylphenol	<0.29		0.29	0.043	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
3,3'-Dichlorobenzidine	<0.29		0.29	0.048	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
3-Nitroaniline	<0.58		0.58	0.027	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
4,6-Dinitro-2-methylphenol	<1.2		1.2	0.33	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
4-Bromophenyl phenyl ether	<0.29		0.29	0.040	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
4-Chloro-3-methylphenol	<0.58		0.58	0.023	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
4-Chloroaniline	<1.2		1.2	0.61	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
4-Chlorophenyl phenyl ether	<0.29		0.29	0.077	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
4-Nitroaniline	<0.58		0.58	0.043	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
4-Nitrophenol	<1.2		1.2	0.22	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Acenaphthene	<0.058		0.058	0.012	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Acenaphthylene	<0.058		0.058	0.0099	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Anthracene	<0.058		0.058	0.012	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Benzo[a]anthracene	<0.058		0.058	0.012	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Benzo[a]pyrene	<0.058		0.058	0.056	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Benzo[b]fluoranthene	<0.058		0.058	0.056	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Benzo[g,h,i]perylene	<0.058		0.058	0.013	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Benzo[k]fluoranthene	<0.058		0.058	0.022	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Bis(2-chloroethoxy)methane	<0.29		0.29	0.022	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Bis(2-chloroethyl)ether	<0.29		0.29	0.027	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Bis(2-ethylhexyl) phthalate	<0.29		0.29	0.23	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Butyl benzyl phthalate	<0.29		0.29	0.029	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Carbazole	<0.29		0.29	0.023	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Chrysene	<0.058		0.058	0.015	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Dibenz(a,h)anthracene	<0.058		0.058	0.058	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Dibenzofuran	<0.29		0.29	0.021	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Diethyl phthalate	<0.29		0.29	0.027	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Dimethyl phthalate	<0.29		0.29	0.013	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Di-n-butyl phthalate	<0.29		0.29	0.019	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Di-n-octyl phthalate	<0.58		0.58	0.41	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Fluoranthene	<0.058		0.058	0.014	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Fluorene	<0.058		0.058	0.017	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Hexachlorobenzene	<0.12		0.12	0.011	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Hexachlorobutadiene	<0.29		0.29	0.033	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Hexachlorocyclopentadiene	<1.2		1.2	0.62	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Hexachloroethane	<0.29		0.29	0.029	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Client Sample ID: 4231-1-B17

Lab Sample ID: 500-262867-6

Date Collected: 01/16/25 10:40

Matrix: Solid

Date Received: 01/17/25 13:20

Percent Solids: 79.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.058		0.058	0.057	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Isophorone	<0.29		0.29	0.030	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Naphthalene	<0.058		0.058	0.011	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Nitrobenzene	<0.058		0.058	0.019	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
N-Nitrosodi-n-propylamine	<0.12		0.12	0.012	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
N-Nitrosodiphenylamine	<0.29		0.29	0.035	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Pentachlorophenol	<1.2		1.2	0.15	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Phenanthrene	<0.058		0.058	0.013	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Phenol	<0.29		0.29	0.025	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1
Pyrene	<0.058		0.058	0.016	mg/Kg	☆	01/20/25 14:19	01/21/25 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		31 - 143	01/20/25 14:19	01/21/25 19:23	1
2-Fluorobiphenyl (Surr)	79		43 - 145	01/20/25 14:19	01/21/25 19:23	1
2-Fluorophenol (Surr)	82		31 - 166	01/20/25 14:19	01/21/25 19:23	1
Nitrobenzene-d5 (Surr)	77		37 - 147	01/20/25 14:19	01/21/25 19:23	1
Phenol-d5 (Surr)	79		30 - 153	01/20/25 14:19	01/21/25 19:23	1
Terphenyl-d14 (Surr)	100		42 - 157	01/20/25 14:19	01/21/25 19:23	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.45	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Arsenic	2.1		1.1	0.39	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Barium	13		1.1	0.13	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Beryllium	0.12	J	0.46	0.11	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Boron	3.8	J	5.7	0.53	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Cadmium	0.28		0.23	0.041	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Calcium	17000	B	23	3.9	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Chromium	4.5		1.1	0.57	mg/Kg	☆	01/22/25 09:14	01/24/25 19:17	1
Cobalt	3.5		0.57	0.15	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Copper	6.6		1.1	0.32	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Iron	6200		23	12	mg/Kg	☆	01/22/25 09:14	01/28/25 19:41	1
Lead	5.6		0.57	0.26	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Magnesium	8200		11	5.7	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Manganese	120		1.1	0.17	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Nickel	4.9		1.1	0.33	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Potassium	570	B	57	20	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Selenium	<1.1		1.1	0.67	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Silver	<0.57		0.57	0.15	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Sodium	280		110	17	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Thallium	<1.1		1.1	0.57	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Vanadium	6.8		0.57	0.14	mg/Kg	☆	01/22/25 09:14	01/23/25 15:00	1
Zinc	21		2.3	1.0	mg/Kg	☆	01/22/25 09:14	01/24/25 19:17	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.9		2.0	1.0	mg/L		01/21/25 07:26	01/22/25 17:11	5
Lead	0.0088		0.0075	0.0075	mg/L		01/21/25 07:26	01/21/25 18:47	1
Manganese	1.5		0.025	0.010	mg/L		01/21/25 07:26	01/21/25 18:47	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Client Sample ID: 4231-1-B17

Lab Sample ID: 500-262867-6

Date Collected: 01/16/25 10:40

Matrix: Solid

Date Received: 01/17/25 13:20

Percent Solids: 79.9

Method: SW846 6010D - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/25 07:29	01/21/25 19:14	1
Barium	<0.50		0.50	0.050	mg/L		01/21/25 07:29	01/21/25 19:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/25 07:29	01/21/25 19:14	1
Boron	<0.10		0.10	0.050	mg/L		01/21/25 07:29	01/21/25 19:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/25 07:29	01/21/25 19:14	1
Calcium	8.4		2.5	0.50	mg/L		01/21/25 07:29	01/21/25 19:14	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:14	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:14	1
Iron	6.1		0.40	0.20	mg/L		01/21/25 07:29	01/21/25 19:14	1
Lead	0.014		0.0075	0.0075	mg/L		01/21/25 07:29	01/21/25 19:14	1
Manganese	0.16		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:14	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:14	1
Potassium	1.8 J		2.5	0.50	mg/L		01/21/25 07:29	01/21/25 19:14	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/25 07:29	01/21/25 19:14	1
Silver	<0.025		0.025	0.010	mg/L		01/21/25 07:29	01/21/25 19:14	1
Zinc	0.035 J		0.50	0.020	mg/L		01/21/25 07:29	01/21/25 19:14	1

Method: SW846 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		01/21/25 07:29	01/22/25 18:36	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/21/25 07:29	01/22/25 18:36	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/23/25 14:20	01/24/25 11:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011 J		0.019	0.0080	mg/Kg	✱	01/24/25 15:00	01/27/25 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	✱	01/20/25 11:11	01/21/25 11:18	1
pH (SW846 9045D)	7.0		0.2	0.2	SU			01/21/25 09:44	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD 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.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low 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.
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
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Eurofins Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-040A

Job ID: 500-262867-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - AE8-040A

Job ID: 500-262867-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,3-Dichloropropene, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Client Contact					Laboratory					Project Name										COC No																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com & datamanagement@andrews-eng.com					Lab Eurofins - Chicago					PTB / WO # : 195-002 / 40A										1 of 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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See Table 2 for complete parameter lists and minimum reporting limits					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							