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 90/94 (I-90/94) Office Phone Number, if available:

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

Mile Marker 44 to East of Mile Marker 50 (I-90/94 between I-94 and Ohio Street, Aproximate Station 102+00 to 482+00 LT & RT)

City: Chicago State: IL Zip Code: 60642 & 60618

County: Cook Township: Various

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

Latitude: 41.94699 (Decimal Degrees) Longitude: -87.71953 (-Decimal Degrees)

Identify how the lat/long data were determined:

◯ GPS ⊘ Map Interpolation ◯ Photo Interpolation ◯ Survey ◯ Other

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

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

Estimated Volume of debris (cu. Yd.): 155

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 3835-1-B01, 3835-1-B07 AND 3835-1-B08 WERE SAMPLED ADJACENT TO SITE 3835-1. SEE TABLE 3 AND FIGURES 2, 8 AND 9 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-221990-1 AND 500-221849-1.

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:

Oct 3, 2022
Date:

P.E or L.P.G. Seal:

LICENSED PROFESSIONAL GEOLOGIST
SAVO RADULOVIC
196-001303
ILLINOIS

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 3835-1
ROW

Sample ID	3835-1-B01-1		3835-1-B01-2		3835-1-B01-3		3835-1-B01-4		3835-1-B07-1		**Maximum Allowable Concentration**				
Sample Depth (ft)	0-8		8-16		16-24		24-35		0-8						
Sample Date	9/8/2022		9/8/2022		9/8/2022		9/8/2022		9/6/2022						
PID	0		0		0		0		0						
Sample pH	7.6		7.8		8		8		8.1		[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
Matrix	Soil		Soil		Soil		Soil		Soil						
Inorganic Compounds, Total (mg/kg)															
Arsenic	**7.7**		**6.5**		**9.7**		**10**		**9**		11.3	--	11.3	--	13

Sample ID	3835-1-B07-2		3835-1-B07-3		3835-1-B08-1		3835-1-B08-2		3835-1-B08-3		**Maximum Allowable Concentration**				
Sample Depth (ft)	8-16		16-19		0-8		8-16		16-24						
Sample Date	9/6/2022		9/6/2022		9/6/2022		9/6/2022		9/6/2022						
PID	0		0		0		0		0						
Sample pH	8.1		8.1		7.6		7.7		7.8		[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Matrix	Soil		Soil		Soil		Soil		Soil						
Inorganic Compounds, Total (mg/kg)															
Arsenic	**5.6**		**10**		**3.7**		**8**		**12**	**1,3**	11.3	--	11.3	--	13

Sample ID	3835-1-B08-4		**Maximum Allowable Concentration**				
Sample Depth (ft)	24-35						
Sample Date	9/6/2022						
PID	0						
Sample pH	7.9		[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
Matrix	Soil						
Inorganic Compounds, Total (mg/kg)							
Arsenic	**3.9**		11.3	--	11.3	--	13

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-221990-1
Client Project/Site: IDOT - AE7-065

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

Attn: Ms. Colleen Grey

Authorized for release by:
9/28/2022 9:13:10 AM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221990-1

Client Sample ID: 3835-1-B01-1

Date Collected: 09/08/22 12:00
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-7

Matrix: Solid
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	09/09/22 18:15	09/18/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 134*	*09/09/22 18:15*	*09/18/22 12:49*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*09/09/22 18:15*	*09/18/22 12:49*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*09/09/22 18:15*	*09/18/22 12:49*	*1*
Toluene-d8 (Surr)	*117*		*75 - 124*	*09/09/22 18:15*	*09/18/22 12:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1

Client Sample ID: 3835-1-B01-1
Date Collected: 09/08/22 12:00
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-7
Matrix: Solid
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2-Methylnaphthalene	**0.078**	**J**	0.081	0.0074	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Acenaphthene	**0.025**	**J**	0.040	0.0072	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Benzo[a]pyrene	<0.040	*3	0.040	0.0077	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Benzo[b]fluoranthene	<0.040	*3	0.040	0.0086	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Benzo[g,h,i]perylene	**0.030**	**J *3**	0.040	0.013	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Benzo[k]fluoranthene	<0.040	*3	0.040	0.012	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Carbazole	<0.20	*+	0.20	0.10	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Chrysene	**0.041**		0.040	0.011	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Dibenz(a,h)anthracene	<0.040	*3	0.040	0.0077	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Fluoranthene	**0.011**	**J**	0.040	0.0074	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Fluorene	**0.014**	**J**	0.040	0.0056	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1

Client Sample ID: 3835-1-B01-1
Date Collected: 09/08/22 12:00
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-7
Matrix: Solid
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040	*3	0.040	0.010	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Naphthalene	**0.033**	**J**	0.040	0.0061	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
N-Nitrosodiphenylamine	**0.16**	**J**	0.20	0.047	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Phenanthrene	**0.20**		0.040	0.0056	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1
Pyrene	**0.046**		0.040	0.0079	mg/Kg	☼	09/22/22 05:16	09/23/22 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*121*		*31 - 143*	*09/22/22 05:16*	*09/23/22 21:04*	*1*
2-Fluorobiphenyl	*113*		*43 - 145*	*09/22/22 05:16*	*09/23/22 21:04*	*1*
2-Fluorophenol	*134*		*31 - 166*	*09/22/22 05:16*	*09/23/22 21:04*	*1*
Nitrobenzene-d5 (Surr)	*84*		*37 - 147*	*09/22/22 05:16*	*09/23/22 21:04*	*1*
Phenol-d5	*107*		*30 - 153*	*09/22/22 05:16*	*09/23/22 21:04*	*1*
Terphenyl-d14 (Surr)	*164*	*S1+*	*42 - 157*	*09/22/22 05:16*	*09/23/22 21:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J B**	1.2	0.23	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Arsenic	**7.7**		0.60	0.20	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Barium	**43**		0.60	0.068	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Beryllium	**0.81**		0.24	0.056	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Boron	**18**	**B**	3.0	0.28	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Cadmium	**0.17**	**B**	0.12	0.021	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Calcium	**54000**	**B**	60	10	mg/Kg	☼	09/19/22 22:53	09/25/22 22:14	5
Chromium	**16**		0.60	0.30	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Cobalt	**13**		0.30	0.078	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Copper	**28**		0.60	0.17	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Iron	**19000**		12	6.2	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Lead	**13**		0.30	0.14	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Magnesium	**24000**		6.0	3.0	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Manganese	**320**		0.60	0.086	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Nickel	**33**		0.60	0.17	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Potassium	**3200**		30	11	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Silver	**0.34**		0.30	0.077	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Sodium	**490**		60	8.8	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Thallium	**0.46**	**J**	0.60	0.30	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Vanadium	**19**		0.30	0.070	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1
Zinc	**48**		1.2	0.52	mg/Kg	☼	09/19/22 22:53	09/23/22 21:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/23/22 09:06	09/25/22 21:08	1
Barium	<0.50		0.50	0.050	mg/L		09/23/22 09:06	09/25/22 21:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/22 09:06	09/25/22 21:08	1
Boron	**0.098**	**J**	0.10	0.050	mg/L		09/23/22 09:06	09/25/22 21:08	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221990-1

Client Sample ID: 3835-1-B01-1
Date Collected: 09/08/22 12:00
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-7
Matrix: Solid
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/22 09:06	09/25/22 21:08	1
Calcium	**16**		2.5	0.50	mg/L		09/23/22 09:06	09/25/22 21:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:08	1
Iron	**0.70**		0.40	0.20	mg/L		09/23/22 09:06	09/25/22 21:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/23/22 09:06	09/25/22 21:08	1
Manganese	**0.017**	**J**	0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:08	1
Nickel	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:08	1
Potassium	**2.3**	**J**	2.5	0.50	mg/L		09/23/22 09:06	09/25/22 21:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/23/22 09:06	09/25/22 21:08	1
Silver	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:08	1
Zinc	<0.50		0.50	0.020	mg/L		09/23/22 09:06	09/25/22 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/23/22 09:06	09/24/22 04:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/22 09:06	09/24/22 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/22/22 15:25	09/23/22 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.018	0.0061	mg/Kg	☼	09/21/22 13:35	09/22/22 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29	F1	0.29	0.14	mg/Kg	☼	09/16/22 10:01	09/19/22 15:14	1
pH	**7.6**		0.2	0.2	SU			09/13/22 13:34	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221990-1

Client Sample ID: 3835-1-B01-2
Date Collected: 09/08/22 12:10
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-8
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	09/09/22 18:15	09/18/22 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*09/09/22 18:15*	*09/18/22 13:12*	*1*
4-Bromofluorobenzene (Surr)	*120*		*75 - 131*	*09/09/22 18:15*	*09/18/22 13:12*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*09/09/22 18:15*	*09/18/22 13:12*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/09/22 18:15*	*09/18/22 13:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1

Client Sample ID: 3835-1-B01-2
Date Collected: 09/08/22 12:10
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-8
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2-Methylnaphthalene	**0.091**		0.081	0.0074	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Acenaphthene	**0.029**	**J**	0.040	0.0072	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Benzo[a]pyrene	<0.040	*3	0.040	0.0077	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Benzo[b]fluoranthene	<0.040	*3	0.040	0.0086	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Benzo[g,h,i]perylene	**0.035**	**J *3**	0.040	0.013	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Benzo[k]fluoranthene	<0.040	*3	0.040	0.012	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Carbazole	<0.20	*+	0.20	0.10	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Chrysene	**0.047**		0.040	0.011	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Dibenz(a,h)anthracene	<0.040	*3	0.040	0.0077	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Fluoranthene	**0.014**	**J**	0.040	0.0074	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Fluorene	**0.018**	**J**	0.040	0.0056	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221990-1

Client Sample ID: 3835-1-B01-2
Date Collected: 09/08/22 12:10
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-8
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040	*3	0.040	0.010	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Naphthalene	**0.039**	**J**	0.040	0.0062	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
N-Nitrosodiphenylamine	**0.18**	**J**	0.20	0.047	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Phenanthrene	**0.22**		0.040	0.0056	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1
Pyrene	**0.057**		0.040	0.0079	mg/Kg	☼	09/22/22 05:16	09/23/22 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*128*		*31 - 143*	*09/22/22 05:16*	*09/23/22 21:27*	*1*
2-Fluorobiphenyl	*122*		*43 - 145*	*09/22/22 05:16*	*09/23/22 21:27*	*1*
2-Fluorophenol	*160*		*31 - 166*	*09/22/22 05:16*	*09/23/22 21:27*	*1*
Nitrobenzene-d5 (Surr)	*106*		*37 - 147*	*09/22/22 05:16*	*09/23/22 21:27*	*1*
Phenol-d5	*122*		*30 - 153*	*09/22/22 05:16*	*09/23/22 21:27*	*1*
Terphenyl-d14 (Surr)	*191*	*S1+*	*42 - 157*	*09/22/22 05:16*	*09/23/22 21:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J B**	1.2	0.23	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Arsenic	**6.5**		0.60	0.21	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Barium	**39**		0.60	0.069	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Beryllium	**0.67**		0.24	0.056	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Boron	**16**	**B**	3.0	0.28	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Cadmium	**0.16**	**B**	0.12	0.022	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Calcium	**50000**	**B**	60	10	mg/Kg	☼	09/19/22 22:53	09/25/22 22:17	5
Chromium	**14**		0.60	0.30	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Cobalt	**11**		0.30	0.079	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Copper	**23**		0.60	0.17	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Iron	**17000**		12	6.3	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Lead	**11**		0.30	0.14	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Magnesium	**22000**		6.0	3.0	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Manganese	**290**		0.60	0.087	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Nickel	**28**		0.60	0.18	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Potassium	**2900**		30	11	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Silver	**0.34**		0.30	0.078	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Sodium	**220**		60	8.9	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Thallium	**0.50**	**J**	0.60	0.30	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Vanadium	**17**		0.30	0.071	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1
Zinc	**41**		1.2	0.53	mg/Kg	☼	09/19/22 22:53	09/23/22 21:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/23/22 09:06	09/25/22 21:12	1
Barium	<0.50		0.50	0.050	mg/L		09/23/22 09:06	09/25/22 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/22 09:06	09/25/22 21:12	1
Boron	**0.10**		0.10	0.050	mg/L		09/23/22 09:06	09/25/22 21:12	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221990-1

Client Sample ID: 3835-1-B01-2
Date Collected: 09/08/22 12:10
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-8
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/22 09:06	09/25/22 21:12	1
Calcium	**14**		2.5	0.50	mg/L		09/23/22 09:06	09/25/22 21:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:12	1
Iron	**2.6**		0.40	0.20	mg/L		09/23/22 09:06	09/25/22 21:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/23/22 09:06	09/25/22 21:12	1
Manganese	**0.031**		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:12	1
Potassium	**3.2**		2.5	0.50	mg/L		09/23/22 09:06	09/25/22 21:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/23/22 09:06	09/25/22 21:12	1
Silver	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:12	1
Zinc	<0.50		0.50	0.020	mg/L		09/23/22 09:06	09/25/22 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/23/22 09:06	09/24/22 04:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/22 09:06	09/24/22 04:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/22/22 15:25	09/23/22 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.019	0.0064	mg/Kg	☼	09/21/22 13:35	09/22/22 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.14	mg/Kg	☼	09/16/22 10:01	09/19/22 15:18	1
pH	**7.8**		0.2	0.2	SU			09/13/22 13:37	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221990-1

Client Sample ID: 3835-1-B01-3
Date Collected: 09/08/22 12:20
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-9
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	09/09/22 18:15	09/18/22 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*09/09/22 18:15*	*09/18/22 13:35*	*1*
4-Bromofluorobenzene (Surr)	*125*		*75 - 131*	*09/09/22 18:15*	*09/18/22 13:35*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*09/09/22 18:15*	*09/18/22 13:35*	*1*
Toluene-d8 (Surr)	*118*		*75 - 124*	*09/09/22 18:15*	*09/18/22 13:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1

Client Sample ID: 3835-1-B01-3
Date Collected: 09/08/22 12:20
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-9
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2-Methylnaphthalene	**0.063**	**J**	0.079	0.0072	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Acenaphthene	**0.031**	**J**	0.039	0.0070	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Benzo[a]pyrene	<0.039	*3	0.039	0.0076	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Benzo[b]fluoranthene	<0.039	*3	0.039	0.0085	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Benzo[g,h,i]perylene	**0.031**	**J *3**	0.039	0.013	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Carbazole	<0.20	*+	0.20	0.098	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Chrysene	**0.042**		0.039	0.011	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0076	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Fluoranthene	**0.011**	**J**	0.039	0.0073	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1

Client Sample ID: 3835-1-B01-3
Date Collected: 09/08/22 12:20
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-9
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Phenanthrene	**0.20**		0.039	0.0055	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1
Pyrene	**0.053**		0.039	0.0078	mg/Kg	☼	09/22/22 05:16	09/23/22 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*31 - 143*	*09/22/22 05:16*	*09/23/22 21:51*	*1*
2-Fluorobiphenyl	*118*		*43 - 145*	*09/22/22 05:16*	*09/23/22 21:51*	*1*
2-Fluorophenol	*149*		*31 - 166*	*09/22/22 05:16*	*09/23/22 21:51*	*1*
Nitrobenzene-d5 (Surr)	*97*		*37 - 147*	*09/22/22 05:16*	*09/23/22 21:51*	*1*
Phenol-d5	*119*		*30 - 153*	*09/22/22 05:16*	*09/23/22 21:51*	*1*
Terphenyl-d14 (Surr)	*182*	*S1+*	*42 - 157*	*09/22/22 05:16*	*09/23/22 21:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J B**	1.1	0.22	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Arsenic	**9.7**		0.57	0.20	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Barium	**33**		0.57	0.066	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Beryllium	**0.75**		0.23	0.054	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Boron	**15**	**B**	2.9	0.27	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Cadmium	**0.21**	**B**	0.11	0.021	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Calcium	**57000**	**B**	57	9.7	mg/Kg	☼	09/19/22 22:53	09/25/22 22:20	5
Chromium	**14**		0.57	0.28	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Cobalt	**14**		0.29	0.075	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Copper	**34**		0.57	0.16	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Iron	**20000**		11	6.0	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Lead	**16**		0.29	0.13	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Magnesium	**26000**		5.7	2.9	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Manganese	**340**		0.57	0.083	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Nickel	**34**		0.57	0.17	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Potassium	**2700**		29	10	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Silver	**0.31**		0.29	0.074	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Sodium	**200**		57	8.5	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Thallium	**0.54**	**J**	0.57	0.29	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Vanadium	**17**		0.29	0.068	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1
Zinc	**55**		1.1	0.50	mg/Kg	☼	09/19/22 22:53	09/23/22 21:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.75**		0.20	0.20	mg/L		09/23/22 09:02	09/26/22 21:56	1

Client Sample ID: 3835-1-B01-3

Date Collected: 09/08/22 12:20
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-9

Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/23/22 09:06	09/25/22 21:15	1
Barium	**0.050**	**J**	0.50	0.050	mg/L		09/23/22 09:06	09/25/22 21:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/22 09:06	09/25/22 21:15	1
Boron	**0.15**		0.10	0.050	mg/L		09/23/22 09:06	09/25/22 21:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/22 09:06	09/25/22 21:15	1
Calcium	**15**		2.5	0.50	mg/L		09/23/22 09:06	09/25/22 21:15	1
Chromium	**0.012**	**J**	0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:15	1
Cobalt	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:15	1
Iron	**7.4**		0.40	0.20	mg/L		09/23/22 09:06	09/25/22 21:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/23/22 09:06	09/25/22 21:15	1
Manganese	**0.067**		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:15	1
Nickel	**0.011**	**J ^2**	0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:15	1
Potassium	**5.7**		2.5	0.50	mg/L		09/23/22 09:06	09/25/22 21:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/23/22 09:06	09/25/22 21:15	1
Silver	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:15	1
Zinc	<0.50		0.50	0.020	mg/L		09/23/22 09:06	09/25/22 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/23/22 09:06	09/24/22 04:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/22 09:06	09/24/22 04:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/22/22 15:25	09/23/22 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.019	0.0063	mg/Kg	☼	09/21/22 13:35	09/22/22 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	09/16/22 10:01	09/19/22 15:20	1
pH	**8.0**		0.2	0.2	SU			09/13/22 13:39	1

Client Sample ID: 3835-1-B01-4
Date Collected: 09/08/22 12:30
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-10
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00052	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	09/09/22 18:15	09/20/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*09/09/22 18:15*	*09/20/22 13:24*	*1*
4-Bromofluorobenzene (Surr)	*177*	*3 S1+	*75 - 131*	*09/09/22 18:15*	*09/20/22 13:24*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*09/09/22 18:15*	*09/20/22 13:24*	*1*
Toluene-d8 (Surr)	*120*		*75 - 124*	*09/09/22 18:15*	*09/20/22 13:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1

Client Sample ID: 3835-1-B01-4
Date Collected: 09/08/22 12:30
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-10
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2-Methylnaphthalene	**0.075**	**J**	0.078	0.0071	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Acenaphthene	**0.024**	**J**	0.038	0.0069	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0075	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0083	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Benzo[g,h,i]perylene	**0.017**	**J *3**	0.038	0.012	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Carbazole	<0.19	*+	0.19	0.096	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Chrysene	**0.034**	**J**	0.038	0.010	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1

Client Sample ID: 3835-1-B01-4
Date Collected: 09/08/22 12:30
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-10
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.010	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
N-Nitrosodiphenylamine	**0.14**	**J**	0.19	0.045	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Phenanthrene	**0.18**		0.038	0.0054	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1
Pyrene	**0.042**		0.038	0.0076	mg/Kg	☼	09/22/22 05:16	09/23/22 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*31 - 143*	*09/22/22 05:16*	*09/23/22 22:15*	*1*
2-Fluorobiphenyl	*111*		*43 - 145*	*09/22/22 05:16*	*09/23/22 22:15*	*1*
2-Fluorophenol	*140*		*31 - 166*	*09/22/22 05:16*	*09/23/22 22:15*	*1*
Nitrobenzene-d5 (Surr)	*93*		*37 - 147*	*09/22/22 05:16*	*09/23/22 22:15*	*1*
Phenol-d5	*101*		*30 - 153*	*09/22/22 05:16*	*09/23/22 22:15*	*1*
Terphenyl-d14 (Surr)	*178*	*S1+*	*42 - 157*	*09/22/22 05:16*	*09/23/22 22:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J B**	1.2	0.22	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Arsenic	**10**		0.58	0.20	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Barium	**32**		0.58	0.066	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Beryllium	**0.77**		0.23	0.054	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Boron	**16**	**B**	2.9	0.27	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Cadmium	**0.24**	**B**	0.12	0.021	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Calcium	**52000**	**B**	58	9.7	mg/Kg	☼	09/19/22 22:53	09/25/22 22:23	5
Chromium	**14**		0.58	0.28	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Cobalt	**14**		0.29	0.075	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Copper	**33**		0.58	0.16	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Iron	**20000**		12	6.0	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Lead	**16**		0.29	0.13	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Magnesium	**25000**		5.8	2.9	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Manganese	**320**		0.58	0.083	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Nickel	**35**		0.58	0.17	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Potassium	**2900**		29	10	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Silver	**0.34**		0.29	0.074	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Sodium	**200**		58	8.5	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Thallium	**0.75**		0.58	0.29	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Vanadium	**17**		0.29	0.068	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1
Zinc	**59**		1.2	0.50	mg/Kg	☼	09/19/22 22:53	09/23/22 21:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.34**	**J**	0.40	0.20	mg/L		09/23/22 09:02	09/26/22 22:00	1
Lead	**0.0084**		0.0075	0.0075	mg/L		09/23/22 09:02	09/26/22 22:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221990-1

Client Sample ID: 3835-1-B01-4

Date Collected: 09/08/22 12:30
Date Received: 09/09/22 12:01

Lab Sample ID: 500-221990-10

Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/23/22 09:06	09/25/22 21:25	1
Barium	**0.089**	**J**	0.50	0.050	mg/L		09/23/22 09:06	09/25/22 21:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/23/22 09:06	09/25/22 21:25	1
Boron	**0.15**		0.10	0.050	mg/L		09/23/22 09:06	09/25/22 21:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/23/22 09:06	09/25/22 21:25	1
Calcium	**20**		2.5	0.50	mg/L		09/23/22 09:06	09/25/22 21:25	1
Chromium	**0.026**		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:25	1
Cobalt	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:25	1
Iron	**15**		0.40	0.20	mg/L		09/23/22 09:06	09/25/22 21:25	1
Lead	**0.010**		0.0075	0.0075	mg/L		09/23/22 09:06	09/25/22 21:25	1
Manganese	**0.14**		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:25	1
Nickel	**0.023**	**J**	0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:25	1
Potassium	**10**		2.5	0.50	mg/L		09/23/22 09:06	09/25/22 21:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/23/22 09:06	09/25/22 21:25	1
Silver	<0.025		0.025	0.010	mg/L		09/23/22 09:06	09/25/22 21:25	1
Zinc	**0.026**	**J**	0.50	0.020	mg/L		09/23/22 09:06	09/25/22 21:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/23/22 09:06	09/24/22 04:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/23/22 09:06	09/24/22 04:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/22/22 15:25	09/23/22 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.017	0.0057	mg/Kg	☼	09/21/22 13:35	09/22/22 07:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	☼	09/19/22 09:09	09/22/22 14:22	1
pH	**8.0**		0.2	0.2	SU			09/13/22 13:42	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221990-1

Laboratory: Eurofins Chicago

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

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

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng com	Lab **Test America - Chicago** Address **2417 Bond Street** **University Park, IL 60484** Phone **708-534-5200** Contact **Dick Wright** email richard wright@testamericainc com	Project Name AE7-065A 500-221990 COC Project No PTB/WO: 184-006/65A TAT ☐15 BD ☐10 BD ☐5 BD ☐2 BD ☑Other Sampler:

COC No 1 of 1

Lab Job No 500-221990

Sample Temp 3.2 - 1.2

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

Matrix Key:

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

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	3835-1-B05-1	9/8/22	8:50	Soil	X	X					X	X	X	X	X					
2	3835-1-B05-2		9:00																	
3	3835-1-B03-1		10:00																	
4	3835-1-B03-2		10:10																	
5	3835-1-B03-3		10:20																	
6	3835-1-B03-4		10:30																	
7	3835-1-B01-1		12:06																	
8	3835-1-B01-2		12:10																	
9	3835-1-B01-3		12:20																	
10	3835-1-B01-4		12:30																	
11	Trip Blank #3				X															

Relinquished by	Date/Time 9/9/22	Received by	Date/Time 9/9/22 1113
Relinquished by	Date/Time 9/9/22 1201	Received by	Date/Time 9/9/22 1201
Relinquished by	Date/Time	Received by	Date/Time

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-221849-1
Client Project/Site: IDOT - AE7-065

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

Attn: Ms. Colleen Grey

Authorized for release by:
9/23/2022 3:18:19 PM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-1

Date Collected: 09/06/22 11:10
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-5

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*09/07/22 18:10*	*09/14/22 12:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*09/07/22 18:10*	*09/14/22 12:52*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*09/07/22 18:10*	*09/14/22 12:52*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*09/07/22 18:10*	*09/14/22 12:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.29		0.29	0.063	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
1,2-Dichlorobenzene	<0.29		0.29	0.070	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
1,3-Dichlorobenzene	<0.29		0.29	0.066	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
1,4-Dichlorobenzene	<0.29		0.29	0.075	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2,2'-oxybis[1-chloropropane]	<0.29		0.29	0.068	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-1
Date Collected: 09/06/22 11:10
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-5
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.58		0.58	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2,4,6-Trichlorophenol	<0.58		0.58	0.20	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2,4-Dichlorophenol	<0.58		0.58	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2,4-Dimethylphenol	<0.58		0.58	0.22	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2,4-Dinitrophenol	<1.2		1.2	1.0	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2,4-Dinitrotoluene	<0.29		0.29	0.093	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2,6-Dinitrotoluene	<0.29		0.29	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2-Chloronaphthalene	<0.29		0.29	0.064	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2-Chlorophenol	<0.29		0.29	0.10	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2-Methylnaphthalene	<0.12		0.12	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2-Methylphenol	<0.29		0.29	0.094	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2-Nitroaniline	<0.29		0.29	0.078	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
2-Nitrophenol	<0.58		0.58	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
3 & 4 Methylphenol	<0.29		0.29	0.097	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
3,3'-Dichlorobenzidine	<0.29		0.29	0.082	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
3-Nitroaniline	<0.58		0.58	0.18	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
4,6-Dinitro-2-methylphenol	<1.2		1.2	0.47	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
4-Bromophenyl phenyl ether	<0.29		0.29	0.077	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
4-Chloro-3-methylphenol	<0.58		0.58	0.20	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
4-Chloroaniline	<1.2		1.2	0.27	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
4-Chlorophenyl phenyl ether	<0.29		0.29	0.068	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
4-Nitroaniline	<0.58		0.58	0.24	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
4-Nitrophenol	<1.2		1.2	0.55	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Acenaphthene	<0.058		0.058	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Acenaphthylene	<0.058		0.058	0.0077	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Anthracene	<0.058		0.058	0.0097	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Benzo[a]anthracene	<0.058		0.058	0.0078	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Benzo[a]pyrene	<0.058	*3	0.058	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Benzo[b]fluoranthene	<0.058	*3	0.058	0.013	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Benzo[g,h,i]perylene	<0.058	*3	0.058	0.019	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Benzo[k]fluoranthene	<0.058	*3	0.058	0.017	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Bis(2-chloroethoxy)methane	<0.29		0.29	0.059	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Bis(2-chloroethyl)ether	<0.29		0.29	0.087	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Bis(2-ethylhexyl) phthalate	<0.29		0.29	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Butyl benzyl phthalate	<0.29		0.29	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Carbazole	<0.29		0.29	0.15	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Chrysene	<0.058		0.058	0.016	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Dibenz(a,h)anthracene	<0.058	*3	0.058	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Dibenzofuran	<0.29		0.29	0.068	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Diethyl phthalate	<0.29		0.29	0.099	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Dimethyl phthalate	<0.29		0.29	0.076	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Di-n-butyl phthalate	<0.29		0.29	0.089	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Di-n-octyl phthalate	<0.29		0.29	0.095	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Fluoranthene	<0.058		0.058	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Fluorene	<0.058		0.058	0.0082	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Hexachlorobenzene	<0.12		0.12	0.014	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Hexachlorobutadiene	<0.29		0.29	0.092	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Hexachlorocyclopentadiene	<1.2		1.2	0.34	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Hexachloroethane	<0.29		0.29	0.089	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-1
Date Collected: 09/06/22 11:10
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-5
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.058	*3	0.058	0.015	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Isophorone	<0.29		0.29	0.065	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Naphthalene	<0.058		0.058	0.0090	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Nitrobenzene	<0.058		0.058	0.015	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
N-Nitrosodi-n-propylamine	<0.12		0.12	0.071	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
N-Nitrosodiphenylamine	<0.29		0.29	0.069	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Pentachlorophenol	<1.2		1.2	0.94	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Phenanthrene	<0.058		0.058	0.0081	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Phenol	<0.29		0.29	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1
Pyrene	<0.058		0.058	0.012	mg/Kg	☼	09/19/22 14:02	09/21/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*31 - 143*	*09/19/22 14:02*	*09/21/22 17:59*	*1*
2-Fluorobiphenyl	*86*		*43 - 145*	*09/19/22 14:02*	*09/21/22 17:59*	*1*
2-Fluorophenol	*100*		*31 - 166*	*09/19/22 14:02*	*09/21/22 17:59*	*1*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*	*09/19/22 14:02*	*09/21/22 17:59*	*1*
Phenol-d5	*91*		*30 - 153*	*09/19/22 14:02*	*09/21/22 17:59*	*1*
Terphenyl-d14 (Surr)	*161*	*S1+*	*42 - 157*	*09/19/22 14:02*	*09/21/22 17:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.32**	**J**	1.2	0.23	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Arsenic	**3.7**		0.59	0.20	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Barium	**48**		0.59	0.067	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Beryllium	**1.0**		0.23	0.055	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Boron	**8.6**		2.9	0.27	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Cadmium	**0.14**		0.12	0.021	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Calcium	**4500**		12	2.0	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Chromium	**20**		0.59	0.29	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Cobalt	**11**		0.29	0.077	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Copper	**27**		0.59	0.16	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Iron	**17000**		12	6.1	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Lead	**18**		0.29	0.14	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Magnesium	**4600**		5.9	2.9	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Manganese	**140**		0.59	0.085	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Nickel	**32**		0.59	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Potassium	**2200**		29	10	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Selenium	**0.35**	**J**	0.59	0.34	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Silver	**0.35**		0.29	0.076	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Sodium	**160**		59	8.7	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Thallium	**0.40**	**J**	0.59	0.29	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Vanadium	**24**		0.29	0.069	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1
Zinc	**60**		1.2	0.51	mg/Kg	☼	09/16/22 15:33	09/19/22 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/19/22 09:03	09/20/22 19:30	1
Barium	<0.50		0.50	0.050	mg/L		09/19/22 09:03	09/20/22 19:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/22 09:03	09/20/22 19:30	1
Boron	**0.058**	**J**	0.10	0.050	mg/L		09/19/22 09:03	09/20/22 19:30	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-1
Date Collected: 09/06/22 11:10
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-5
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/19/22 09:03	09/20/22 19:30	1
Calcium	**10**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:30	1
Chromium	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:30	1
Cobalt	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:30	1
Iron	**0.76**		0.40	0.20	mg/L		09/19/22 09:03	09/20/22 19:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/19/22 09:03	09/20/22 19:30	1
Manganese	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:30	1
Nickel	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:30	1
Potassium	**0.70**	**J**	2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/19/22 09:03	09/20/22 19:30	1
Silver	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:30	1
Zinc	<0.50		0.50	0.020	mg/L		09/19/22 09:03	09/20/22 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/19/22 09:03	09/20/22 00:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/19/22 09:03	09/20/22 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/19/22 11:30	09/20/22 12:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.018	0.0059	mg/Kg	☼	09/19/22 16:35	09/20/22 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.13**	**J**	0.27	0.13	mg/Kg	☼	09/13/22 11:30	09/13/22 14:36	1
pH	**7.6**		0.2	0.2	SU			09/12/22 18:21	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-2

Date Collected: 09/06/22 11:20
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-6

Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	09/07/22 18:10	09/14/22 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*09/07/22 18:10*	*09/14/22 13:17*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*	*09/07/22 18:10*	*09/14/22 13:17*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*09/07/22 18:10*	*09/14/22 13:17*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/07/22 18:10*	*09/14/22 13:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.30		0.30	0.064	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
1,2-Dichlorobenzene	<0.30		0.30	0.071	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
1,3-Dichlorobenzene	<0.30		0.30	0.067	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
1,4-Dichlorobenzene	<0.30		0.30	0.076	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2,2'-oxybis[1-chloropropane]	<0.30		0.30	0.069	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1

Client Sample ID: 3835-1-B08-2
Date Collected: 09/06/22 11:20
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-6
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.59		0.59	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2,4,6-Trichlorophenol	<0.59		0.59	0.20	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2,4-Dichlorophenol	<0.59		0.59	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2,4-Dimethylphenol	<0.59		0.59	0.22	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2,4-Dinitrophenol	<1.2		1.2	1.0	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2,4-Dinitrotoluene	<0.30		0.30	0.094	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2,6-Dinitrotoluene	<0.30		0.30	0.12	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2-Chloronaphthalene	<0.30		0.30	0.065	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2-Chlorophenol	<0.30		0.30	0.10	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2-Methylnaphthalene	**0.013**	**J**	0.12	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2-Methylphenol	<0.30		0.30	0.095	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2-Nitroaniline	<0.30		0.30	0.080	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
2-Nitrophenol	<0.59		0.59	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
3 & 4 Methylphenol	<0.30		0.30	0.099	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
3,3'-Dichlorobenzidine	<0.30		0.30	0.083	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
3-Nitroaniline	<0.59		0.59	0.18	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
4,6-Dinitro-2-methylphenol	<1.2		1.2	0.48	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
4-Bromophenyl phenyl ether	<0.30		0.30	0.078	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
4-Chloro-3-methylphenol	<0.59		0.59	0.20	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
4-Chloroaniline	<1.2		1.2	0.28	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
4-Chlorophenyl phenyl ether	<0.30		0.30	0.069	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
4-Nitroaniline	<0.59		0.59	0.25	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
4-Nitrophenol	<1.2		1.2	0.56	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Acenaphthene	<0.059		0.059	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Acenaphthylene	<0.059		0.059	0.0078	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Anthracene	<0.059		0.059	0.0099	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Benzo[a]anthracene	<0.059		0.059	0.0080	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Benzo[a]pyrene	<0.059		0.059	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Benzo[b]fluoranthene	<0.059		0.059	0.013	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Benzo[g,h,i]perylene	<0.059		0.059	0.019	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Benzo[k]fluoranthene	<0.059		0.059	0.017	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Bis(2-chloroethoxy)methane	<0.30		0.30	0.060	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Bis(2-chloroethyl)ether	<0.30		0.30	0.089	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Bis(2-ethylhexyl) phthalate	<0.30		0.30	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Butyl benzyl phthalate	<0.30		0.30	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Carbazole	<0.30		0.30	0.15	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Chrysene	**0.023**	**J**	0.059	0.016	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Dibenz(a,h)anthracene	<0.059		0.059	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Dibenzofuran	<0.30		0.30	0.069	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Diethyl phthalate	<0.30		0.30	0.10	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Dimethyl phthalate	<0.30		0.30	0.077	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Di-n-butyl phthalate	<0.30		0.30	0.090	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Di-n-octyl phthalate	<0.30		0.30	0.097	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Fluoranthene	<0.059		0.059	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Fluorene	<0.059		0.059	0.0083	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Hexachlorobenzene	<0.12		0.12	0.014	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Hexachlorobutadiene	<0.30		0.30	0.093	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Hexachlorocyclopentadiene	<1.2		1.2	0.34	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Hexachloroethane	<0.30		0.30	0.090	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-2
Date Collected: 09/06/22 11:20
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-6
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.059		0.059	0.015	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Isophorone	<0.30		0.30	0.067	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Naphthalene	<0.059		0.059	0.0091	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Nitrobenzene	<0.059		0.059	0.015	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
N-Nitrosodi-n-propylamine	<0.12		0.12	0.072	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
N-Nitrosodiphenylamine	<0.30		0.30	0.070	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Pentachlorophenol	<1.2		1.2	0.95	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Phenanthrene	**0.068**		0.059	0.0083	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Phenol	<0.30		0.30	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1
Pyrene	**0.024**	**J**	0.059	0.012	mg/Kg	☼	09/19/22 14:02	09/21/22 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*51*		*31 - 143*	*09/19/22 14:02*	*09/21/22 18:21*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*09/19/22 14:02*	*09/21/22 18:21*	*1*
2-Fluorophenol	*81*		*31 - 166*	*09/19/22 14:02*	*09/21/22 18:21*	*1*
Nitrobenzene-d5 (Surr)	*81*		*37 - 147*	*09/19/22 14:02*	*09/21/22 18:21*	*1*
Phenol-d5	*83*		*30 - 153*	*09/19/22 14:02*	*09/21/22 18:21*	*1*
Terphenyl-d14 (Surr)	*115*		*42 - 157*	*09/19/22 14:02*	*09/21/22 18:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.35**	**J**	1.2	0.23	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Arsenic	**8.0**		0.59	0.20	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Barium	**47**		0.59	0.067	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Beryllium	**0.64**		0.24	0.055	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Boron	**11**		2.9	0.27	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Cadmium	**0.12**		0.12	0.021	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Calcium	**80000**		59	10	mg/Kg	☼	09/16/22 15:33	09/20/22 20:26	5
Chromium	**13**		0.59	0.29	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Cobalt	**13**		0.29	0.077	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Copper	**28**		0.59	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Iron	**16000**		12	6.1	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Lead	**14**		0.29	0.14	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Magnesium	**34000**		5.9	2.9	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Manganese	**610**		0.59	0.085	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Nickel	**27**		0.59	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Potassium	**2100**		29	10	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Silver	**0.22**	**J**	0.29	0.076	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Sodium	**150**		59	8.7	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Vanadium	**16**		0.29	0.070	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1
Zinc	**46**		1.2	0.52	mg/Kg	☼	09/16/22 15:33	09/19/22 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/19/22 09:03	09/20/22 19:33	1
Barium	<0.50		0.50	0.050	mg/L		09/19/22 09:03	09/20/22 19:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/22 09:03	09/20/22 19:33	1
Boron	**0.067**	**J**	0.10	0.050	mg/L		09/19/22 09:03	09/20/22 19:33	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-2
Date Collected: 09/06/22 11:20
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-6
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/19/22 09:03	09/20/22 19:33	1
Calcium	**9.8**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:33	1
Chromium	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:33	1
Cobalt	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:33	1
Iron	**4.0**		0.40	0.20	mg/L		09/19/22 09:03	09/20/22 19:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/19/22 09:03	09/20/22 19:33	1
Manganese	**0.022**	**J**	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:33	1
Nickel	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:33	1
Potassium	**3.0**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/19/22 09:03	09/20/22 19:33	1
Silver	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:33	1
Zinc	<0.50		0.50	0.020	mg/L		09/19/22 09:03	09/20/22 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/19/22 09:03	09/20/22 00:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/19/22 09:03	09/20/22 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/19/22 11:30	09/20/22 12:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.019	0.0064	mg/Kg	☼	09/19/22 16:35	09/20/22 07:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.14	mg/Kg	☼	09/13/22 11:30	09/13/22 14:38	1
pH	**7.7**		0.2	0.2	SU			09/12/22 18:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-3
Date Collected: 09/06/22 11:30
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-7
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00052	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	09/07/22 18:10	09/15/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*09/07/22 18:10*	*09/15/22 12:19*	*1*
4-Bromofluorobenzene (Surr)	*166*	*3 S1+	*75 - 131*	*09/07/22 18:10*	*09/15/22 12:19*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*09/07/22 18:10*	*09/15/22 12:19*	*1*
Toluene-d8 (Surr)	*123*		*75 - 124*	*09/07/22 18:10*	*09/15/22 12:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.28		0.28	0.059	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
1,2-Dichlorobenzene	<0.28		0.28	0.066	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
1,3-Dichlorobenzene	<0.28		0.28	0.062	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
1,4-Dichlorobenzene	<0.28		0.28	0.070	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2,2'-oxybis[1-chloropropane]	<0.28		0.28	0.064	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1

Client Sample ID: 3835-1-B08-3
Date Collected: 09/06/22 11:30
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-7
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.54		0.54	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2,4,6-Trichlorophenol	<0.54		0.54	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2,4-Dichlorophenol	<0.54		0.54	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2,4-Dimethylphenol	<0.54		0.54	0.21	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2,4-Dinitrophenol	<1.1		1.1	0.97	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2,4-Dinitrotoluene	<0.28		0.28	0.087	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2,6-Dinitrotoluene	<0.28		0.28	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2-Chloronaphthalene	<0.28		0.28	0.061	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2-Chlorophenol	<0.28		0.28	0.094	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2-Methylnaphthalene	**0.030**	**J**	0.11	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2-Methylphenol	<0.28		0.28	0.088	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2-Nitroaniline	<0.28		0.28	0.074	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
2-Nitrophenol	<0.54		0.54	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
3 & 4 Methylphenol	<0.28		0.28	0.091	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
3,3'-Dichlorobenzidine	<0.28		0.28	0.077	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
3-Nitroaniline	<0.54		0.54	0.17	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
4,6-Dinitro-2-methylphenol	<1.1		1.1	0.44	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
4-Bromophenyl phenyl ether	<0.28		0.28	0.072	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
4-Chloro-3-methylphenol	<0.54		0.54	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
4-Chloroaniline	<1.1		1.1	0.26	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
4-Chlorophenyl phenyl ether	<0.28		0.28	0.064	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
4-Nitroaniline	<0.54		0.54	0.23	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
4-Nitrophenol	<1.1		1.1	0.52	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Acenaphthene	**0.021**	**J**	0.054	0.0099	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Acenaphthylene	<0.054		0.054	0.0072	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Anthracene	<0.054		0.054	0.0092	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Benzo[a]anthracene	<0.054		0.054	0.0074	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Benzo[a]pyrene	<0.054	*3	0.054	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Benzo[b]fluoranthene	<0.054	*3	0.054	0.012	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Benzo[g,h,i]perylene	<0.054	*3	0.054	0.018	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Benzo[k]fluoranthene	<0.054	*3	0.054	0.016	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Bis(2-chloroethoxy)methane	<0.28		0.28	0.056	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Bis(2-chloroethyl)ether	<0.28		0.28	0.082	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Bis(2-ethylhexyl) phthalate	<0.28		0.28	0.10	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Butyl benzyl phthalate	<0.28		0.28	0.10	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Carbazole	<0.28		0.28	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Chrysene	**0.036**	**J**	0.054	0.015	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Dibenz(a,h)anthracene	<0.054	*3	0.054	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Dibenzofuran	<0.28		0.28	0.064	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Diethyl phthalate	<0.28		0.28	0.093	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Dimethyl phthalate	<0.28		0.28	0.072	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Di-n-butyl phthalate	<0.28		0.28	0.084	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Di-n-octyl phthalate	<0.28		0.28	0.089	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Fluoranthene	<0.054		0.054	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Fluorene	<0.054		0.054	0.0077	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Hexachlorobenzene	<0.11		0.11	0.013	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Hexachlorobutadiene	<0.28		0.28	0.086	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Hexachlorocyclopentadiene	<1.1		1.1	0.32	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Hexachloroethane	<0.28		0.28	0.083	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1

Client Sample ID: 3835-1-B08-3
Date Collected: 09/06/22 11:30
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-7
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.054	*3	0.054	0.014	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Isophorone	<0.28		0.28	0.062	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Naphthalene	<0.054		0.054	0.0084	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Nitrobenzene	<0.054		0.054	0.014	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
N-Nitrosodi-n-propylamine	<0.11		0.11	0.067	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
N-Nitrosodiphenylamine	<0.28		0.28	0.065	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Pentachlorophenol	<1.1		1.1	0.88	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Phenanthrene	**0.22**		0.054	0.0076	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Phenol	<0.28		0.28	0.12	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1
Pyrene	**0.031**	**J**	0.054	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*49*		*31 - 143*	*09/19/22 14:02*	*09/21/22 18:42*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*09/19/22 14:02*	*09/21/22 18:42*	*1*
2-Fluorophenol	*87*		*31 - 166*	*09/19/22 14:02*	*09/21/22 18:42*	*1*
Nitrobenzene-d5 (Surr)	*78*		*37 - 147*	*09/19/22 14:02*	*09/21/22 18:42*	*1*
Phenol-d5	*78*		*30 - 153*	*09/19/22 14:02*	*09/21/22 18:42*	*1*
Terphenyl-d14 (Surr)	*117*		*42 - 157*	*09/19/22 14:02*	*09/21/22 18:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.46**	**J**	1.2	0.23	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Arsenic	**12**		0.60	0.20	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Barium	**22**		0.60	0.068	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Beryllium	**0.67**		0.24	0.056	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Boron	**10**		3.0	0.28	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Cadmium	**0.31**		0.12	0.022	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Calcium	**59000**		60	10	mg/Kg	☼	09/16/22 15:33	09/20/22 20:29	5
Chromium	**11**		0.60	0.30	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Cobalt	**14**		0.30	0.078	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Copper	**42**		0.60	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Iron	**19000**		12	6.2	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Lead	**19**		0.30	0.14	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Magnesium	**26000**		6.0	3.0	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Manganese	**420**		0.60	0.087	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Nickel	**35**		0.60	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Potassium	**1800**		30	11	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Selenium	**0.40**	**J**	0.60	0.35	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Silver	**0.18**	**J**	0.30	0.077	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Sodium	**130**		60	8.9	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Thallium	**0.64**		0.60	0.30	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Vanadium	**14**		0.30	0.071	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1
Zinc	**72**		1.2	0.53	mg/Kg	☼	09/16/22 15:33	09/19/22 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/19/22 09:03	09/20/22 19:36	1
Barium	<0.50		0.50	0.050	mg/L		09/19/22 09:03	09/20/22 19:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/22 09:03	09/20/22 19:36	1
Boron	**0.064**	**J**	0.10	0.050	mg/L		09/19/22 09:03	09/20/22 19:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-3
Date Collected: 09/06/22 11:30
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-7
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/19/22 09:03	09/20/22 19:36	1
Calcium	**12**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:36	1
Chromium	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:36	1
Cobalt	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:36	1
Iron	**1.1**		0.40	0.20	mg/L		09/19/22 09:03	09/20/22 19:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/19/22 09:03	09/20/22 19:36	1
Manganese	**0.018**	**J**	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:36	1
Nickel	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:36	1
Potassium	**2.3**	**J**	2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/19/22 09:03	09/20/22 19:36	1
Silver	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:36	1
Zinc	<0.50		0.50	0.020	mg/L		09/19/22 09:03	09/20/22 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/19/22 09:03	09/20/22 01:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/19/22 09:03	09/20/22 01:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/19/22 11:30	09/20/22 12:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.019	0.0062	mg/Kg	☼	09/19/22 16:35	09/20/22 07:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	09/13/22 11:30	09/13/22 14:39	1
pH	**7.8**		0.2	0.2	SU			09/12/22 18:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-4
Date Collected: 09/06/22 11:40
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-8
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	09/07/22 18:10	09/14/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*09/07/22 18:10*	*09/14/22 14:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*09/07/22 18:10*	*09/14/22 14:06*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*09/07/22 18:10*	*09/14/22 14:06*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/07/22 18:10*	*09/14/22 14:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.28		0.28	0.060	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
1,2-Dichlorobenzene	<0.28		0.28	0.066	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
1,3-Dichlorobenzene	<0.28		0.28	0.062	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
1,4-Dichlorobenzene	<0.28		0.28	0.071	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2,2'-oxybis[1-chloropropane]	<0.28		0.28	0.064	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1

Client Sample ID: 3835-1-B08-4
Date Collected: 09/06/22 11:40
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-8
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.55		0.55	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2,4,6-Trichlorophenol	<0.55		0.55	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2,4-Dichlorophenol	<0.55		0.55	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2,4-Dimethylphenol	<0.55		0.55	0.21	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2,4-Dinitrophenol	<1.1		1.1	0.97	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2,4-Dinitrotoluene	<0.28		0.28	0.088	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2,6-Dinitrotoluene	<0.28		0.28	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2-Chloronaphthalene	<0.28		0.28	0.061	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2-Chlorophenol	<0.28		0.28	0.094	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2-Methylnaphthalene	**0.024**	**J**	0.11	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2-Methylphenol	<0.28		0.28	0.089	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2-Nitroaniline	<0.28		0.28	0.074	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
2-Nitrophenol	<0.55		0.55	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
3 & 4 Methylphenol	<0.28		0.28	0.092	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
3,3'-Dichlorobenzidine	<0.28		0.28	0.077	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
3-Nitroaniline	<0.55		0.55	0.17	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
4,6-Dinitro-2-methylphenol	<1.1		1.1	0.44	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
4-Bromophenyl phenyl ether	<0.28		0.28	0.073	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
4-Chloro-3-methylphenol	<0.55		0.55	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
4-Chloroaniline	<1.1		1.1	0.26	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
4-Chlorophenyl phenyl ether	<0.28		0.28	0.065	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
4-Nitroaniline	<0.55		0.55	0.23	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
4-Nitrophenol	<1.1		1.1	0.53	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Acenaphthene	<0.055		0.055	0.0099	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Acenaphthylene	<0.055		0.055	0.0073	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Anthracene	<0.055		0.055	0.0092	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Benzo[a]anthracene	<0.055		0.055	0.0074	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Benzo[a]pyrene	<0.055	*3	0.055	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Benzo[b]fluoranthene	<0.055	*3	0.055	0.012	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Benzo[g,h,i]perylene	<0.055	*3	0.055	0.018	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Benzo[k]fluoranthene	<0.055	*3	0.055	0.016	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Bis(2-chloroethoxy)methane	<0.28		0.28	0.056	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Bis(2-chloroethyl)ether	<0.28		0.28	0.083	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Bis(2-ethylhexyl) phthalate	<0.28		0.28	0.10	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Butyl benzyl phthalate	<0.28		0.28	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Carbazole	<0.28		0.28	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Chrysene	<0.055		0.055	0.015	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Dibenz(a,h)anthracene	<0.055	*3	0.055	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Dibenzofuran	<0.28		0.28	0.065	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Diethyl phthalate	<0.28		0.28	0.094	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Dimethyl phthalate	<0.28		0.28	0.072	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Di-n-butyl phthalate	<0.28		0.28	0.084	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Di-n-octyl phthalate	<0.28		0.28	0.090	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Fluoranthene	<0.055		0.055	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Fluorene	<0.055		0.055	0.0078	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Hexachlorobenzene	<0.11		0.11	0.013	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Hexachlorobutadiene	<0.28		0.28	0.087	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Hexachlorocyclopentadiene	<1.1		1.1	0.32	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Hexachloroethane	<0.28		0.28	0.084	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B08-4
Date Collected: 09/06/22 11:40
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-8
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.055	*3	0.055	0.014	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Isophorone	<0.28		0.28	0.062	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Naphthalene	<0.055		0.055	0.0085	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Nitrobenzene	<0.055		0.055	0.014	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
N-Nitrosodi-n-propylamine	<0.11		0.11	0.068	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
N-Nitrosodiphenylamine	<0.28		0.28	0.065	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Pentachlorophenol	<1.1		1.1	0.89	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Phenanthrene	**0.033**	**J**	0.055	0.0077	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Phenol	<0.28		0.28	0.12	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1
Pyrene	**0.013**	**J**	0.055	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*37*		*31 - 143*	*09/19/22 14:02*	*09/21/22 19:04*	*1*
2-Fluorobiphenyl	*68*		*43 - 145*	*09/19/22 14:02*	*09/21/22 19:04*	*1*
2-Fluorophenol	*71*		*31 - 166*	*09/19/22 14:02*	*09/21/22 19:04*	*1*
Nitrobenzene-d5 (Surr)	*59*		*37 - 147*	*09/19/22 14:02*	*09/21/22 19:04*	*1*
Phenol-d5	*44*		*30 - 153*	*09/19/22 14:02*	*09/21/22 19:04*	*1*
Terphenyl-d14 (Surr)	*110*		*42 - 157*	*09/19/22 14:02*	*09/21/22 19:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.28**	**J**	1.1	0.22	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Arsenic	**3.9**		0.57	0.20	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Barium	**41**		0.57	0.065	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Beryllium	**0.85**		0.23	0.053	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Boron	**17**		2.9	0.27	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Cadmium	**0.12**		0.11	0.021	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Calcium	**58000**		57	9.7	mg/Kg	☼	09/16/22 15:33	09/20/22 20:32	5
Chromium	**18**		0.57	0.28	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Cobalt	**11**		0.29	0.075	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Copper	**19**		0.57	0.16	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Iron	**17000**		11	6.0	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Lead	**10**		0.29	0.13	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Magnesium	**21000**		5.7	2.8	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Manganese	**290**		0.57	0.083	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Nickel	**30**		0.57	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Potassium	**3300**		29	10	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Silver	**0.25**	**J**	0.29	0.074	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Sodium	**190**		57	8.5	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Thallium	**0.31**	**J**	0.57	0.29	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Vanadium	**21**		0.29	0.068	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1
Zinc	**52**		1.1	0.50	mg/Kg	☼	09/16/22 15:33	09/19/22 18:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.0**		0.20	0.20	mg/L		09/19/22 08:57	09/20/22 14:12	1

Client Sample ID: 3835-1-B08-4
Date Collected: 09/06/22 11:40
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-8
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/19/22 09:03	09/20/22 19:39	1
Barium	**0.077**	**J**	0.50	0.050	mg/L		09/19/22 09:03	09/20/22 19:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/22 09:03	09/20/22 19:39	1
Boron	**0.098**	**J**	0.10	0.050	mg/L		09/19/22 09:03	09/20/22 19:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/19/22 09:03	09/20/22 19:39	1
Calcium	**16**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:39	1
Chromium	**0.016**	**J**	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:39	1
Cobalt	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:39	1
Iron	**9.1**		0.40	0.20	mg/L		09/19/22 09:03	09/20/22 19:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/19/22 09:03	09/20/22 19:39	1
Manganese	**0.091**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:39	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:39	1
Potassium	**7.3**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/19/22 09:03	09/20/22 19:39	1
Silver	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:39	1
Zinc	<0.50		0.50	0.020	mg/L		09/19/22 09:03	09/20/22 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/19/22 09:03	09/20/22 01:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/19/22 09:03	09/20/22 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/19/22 11:30	09/20/22 12:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.018	0.0061	mg/Kg	☼	09/19/22 16:35	09/20/22 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	09/13/22 11:30	09/13/22 14:41	1
pH	**7.9**		0.2	0.2	SU			09/12/22 18:28	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B07-1

Date Collected: 09/06/22 13:00
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-9

Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	09/07/22 18:10	09/14/22 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*09/07/22 18:10*	*09/14/22 14:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*09/07/22 18:10*	*09/14/22 14:31*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*09/07/22 18:10*	*09/14/22 14:31*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*09/07/22 18:10*	*09/14/22 14:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1

Client Sample ID: 3835-1-B07-1
Date Collected: 09/06/22 13:00
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-9
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0071	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Benzo[b]fluoranthene	**0.012**	**J *3**	0.037	0.0080	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Chrysene	**0.017**	**J**	0.037	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0071	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1

Client Sample ID: 3835-1-B07-1
Date Collected: 09/06/22 13:00
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-9
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0096	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Phenanthrene	**0.0072**	**J**	0.037	0.0051	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1
Pyrene	**0.012**	**J**	0.037	0.0073	mg/Kg	☼	09/19/22 14:02	09/21/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*31 - 143*	*09/19/22 14:02*	*09/21/22 19:25*	*1*
2-Fluorobiphenyl	*83*		*43 - 145*	*09/19/22 14:02*	*09/21/22 19:25*	*1*
2-Fluorophenol	*84*		*31 - 166*	*09/19/22 14:02*	*09/21/22 19:25*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*09/19/22 14:02*	*09/21/22 19:25*	*1*
Phenol-d5	*77*		*30 - 153*	*09/19/22 14:02*	*09/21/22 19:25*	*1*
Terphenyl-d14 (Surr)	*139*		*42 - 157*	*09/19/22 14:02*	*09/21/22 19:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.43**	**J**	1.1	0.22	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Arsenic	**9.0**		0.56	0.19	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Barium	**34**		0.56	0.064	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Beryllium	**0.75**		0.22	0.052	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Boron	**11**		2.8	0.26	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Cadmium	**0.18**		0.11	0.020	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Calcium	**61000**		56	9.5	mg/Kg	☼	09/16/22 15:33	09/20/22 20:36	5
Chromium	**16**		0.56	0.28	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Cobalt	**9.5**		0.28	0.074	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Copper	**27**		0.56	0.16	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Iron	**18000**		11	5.8	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Lead	**14**		0.28	0.13	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Magnesium	**25000**		5.6	2.8	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Manganese	**320**		0.56	0.081	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Nickel	**29**		0.56	0.16	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Potassium	**2500**		28	9.9	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Selenium	**0.48**	**J**	0.56	0.33	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Silver	**0.28**		0.28	0.072	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Sodium	**430**		56	8.3	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Thallium	**0.31**	**J**	0.56	0.28	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Vanadium	**18**		0.28	0.066	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1
Zinc	**57**		1.1	0.49	mg/Kg	☼	09/16/22 15:33	09/19/22 18:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/19/22 08:57	09/20/22 14:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/22 08:57	09/20/22 14:15	1
Chromium	<0.025		0.025	0.010	mg/L		09/19/22 08:57	09/20/22 14:15	1
Iron	<0.40		0.40	0.20	mg/L		09/19/22 08:57	09/20/22 14:15	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B07-1
Date Collected: 09/06/22 13:00
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-9
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		09/19/22 08:57	09/20/22 14:15	1
Manganese	**3.4**		0.025	0.010	mg/L		09/19/22 08:57	09/20/22 14:15	1
Nickel	**0.025**		0.025	0.010	mg/L		09/19/22 08:57	09/20/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.099**		0.050	0.010	mg/L		09/19/22 09:03	09/20/22 20:18	1
Barium	**0.43**	**J**	0.50	0.050	mg/L		09/19/22 09:03	09/20/22 20:18	1
Beryllium	**0.0086**		0.0040	0.0040	mg/L		09/19/22 09:03	09/20/22 20:18	1
Boron	**0.24**		0.10	0.050	mg/L		09/19/22 09:03	09/20/22 20:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/19/22 09:03	09/20/22 20:18	1
Calcium	**40**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 20:18	1
Chromium	**0.15**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 20:18	1
Cobalt	**0.061**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 20:18	1
Iron	**160**		0.40	0.20	mg/L		09/19/22 09:03	09/20/22 20:18	1
Lead	**0.092**		0.0075	0.0075	mg/L		09/19/22 09:03	09/20/22 20:18	1
Manganese	**0.64**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 20:18	1
Nickel	**0.19**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 20:18	1
Potassium	**41**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 20:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/19/22 09:03	09/20/22 20:18	1
Silver	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 20:18	1
Zinc	**0.42**	**J**	0.50	0.020	mg/L		09/19/22 09:03	09/20/22 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/19/22 09:03	09/20/22 01:32	1
Thallium	**0.0020**		0.0020	0.0020	mg/L		09/19/22 09:03	09/20/22 01:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/19/22 11:30	09/20/22 12:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.019	0.0063	mg/Kg	☼	09/19/22 16:35	09/20/22 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.14	mg/Kg	☼	09/13/22 11:30	09/13/22 14:42	1
pH	**8.1**		0.2	0.2	SU			09/12/22 18:31	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B07-2
Date Collected: 09/06/22 13:10
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-10
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Acetone	**0.0089**	**J**	0.018	0.0078	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*09/07/22 18:10*	*09/14/22 14:56*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*	*09/07/22 18:10*	*09/14/22 14:56*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*09/07/22 18:10*	*09/14/22 14:56*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*09/07/22 18:10*	*09/14/22 14:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.28		0.28	0.060	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
1,2-Dichlorobenzene	<0.28		0.28	0.067	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
1,3-Dichlorobenzene	<0.28		0.28	0.063	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
1,4-Dichlorobenzene	<0.28		0.28	0.072	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2,2'-oxybis[1-chloropropane]	<0.28		0.28	0.065	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B07-2
Date Collected: 09/06/22 13:10
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-10
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.56		0.56	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2,4,6-Trichlorophenol	<0.56		0.56	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2,4-Dichlorophenol	<0.56		0.56	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2,4-Dimethylphenol	<0.56		0.56	0.21	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2,4-Dinitrophenol	<1.1		1.1	0.99	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2,4-Dinitrotoluene	<0.28		0.28	0.089	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2,6-Dinitrotoluene	<0.28		0.28	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2-Chloronaphthalene	<0.28		0.28	0.062	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2-Chlorophenol	<0.28		0.28	0.096	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2-Methylnaphthalene	<0.11		0.11	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2-Methylphenol	<0.28		0.28	0.090	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2-Nitroaniline	<0.28		0.28	0.075	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
2-Nitrophenol	<0.56		0.56	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
3 & 4 Methylphenol	<0.28		0.28	0.094	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
3,3'-Dichlorobenzidine	<0.28		0.28	0.078	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
3-Nitroaniline	<0.56		0.56	0.17	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
4,6-Dinitro-2-methylphenol	<1.1		1.1	0.45	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
4-Bromophenyl phenyl ether	<0.28		0.28	0.074	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
4-Chloro-3-methylphenol	<0.56		0.56	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
4-Chloroaniline	<1.1		1.1	0.26	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
4-Chlorophenyl phenyl ether	<0.28		0.28	0.065	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
4-Nitroaniline	<0.56		0.56	0.23	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
4-Nitrophenol	<1.1		1.1	0.53	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Acenaphthene	<0.056		0.056	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Acenaphthylene	<0.056		0.056	0.0074	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Anthracene	<0.056		0.056	0.0094	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Benzo[a]anthracene	<0.056		0.056	0.0075	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Benzo[a]pyrene	<0.056	*3	0.056	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Benzo[b]fluoranthene	<0.056	*3	0.056	0.012	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Benzo[g,h,i]perylene	<0.056	*3	0.056	0.018	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Benzo[k]fluoranthene	<0.056	*3	0.056	0.017	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Bis(2-chloroethoxy)methane	<0.28		0.28	0.057	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Bis(2-chloroethyl)ether	<0.28		0.28	0.084	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Bis(2-ethylhexyl) phthalate	<0.28		0.28	0.10	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Butyl benzyl phthalate	<0.28		0.28	0.11	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Carbazole	<0.28		0.28	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Chrysene	**0.018**	**J**	0.056	0.015	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Dibenz(a,h)anthracene	<0.056	*3	0.056	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Dibenzofuran	<0.28		0.28	0.066	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Diethyl phthalate	<0.28		0.28	0.095	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Dimethyl phthalate	<0.28		0.28	0.073	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Di-n-butyl phthalate	<0.28		0.28	0.085	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Di-n-octyl phthalate	<0.28		0.28	0.091	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Fluoranthene	<0.056		0.056	0.010	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Fluorene	<0.056		0.056	0.0079	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Hexachlorobenzene	<0.11		0.11	0.013	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Hexachlorobutadiene	<0.28		0.28	0.088	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Hexachlorocyclopentadiene	<1.1		1.1	0.32	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Hexachloroethane	<0.28		0.28	0.085	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1

Client Sample ID: 3835-1-B07-2
Date Collected: 09/06/22 13:10
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-10
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.056	*3	0.056	0.015	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Isophorone	<0.28		0.28	0.063	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Naphthalene	<0.056		0.056	0.0086	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Nitrobenzene	<0.056		0.056	0.014	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
N-Nitrosodi-n-propylamine	<0.11		0.11	0.069	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
N-Nitrosodiphenylamine	<0.28		0.28	0.066	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Pentachlorophenol	<1.1		1.1	0.90	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Phenanthrene	**0.029**	**J**	0.056	0.0078	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Phenol	<0.28		0.28	0.12	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1
Pyrene	**0.031**	**J**	0.056	0.011	mg/Kg	☼	09/19/22 14:02	09/21/22 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*31 - 143*	*09/19/22 14:02*	*09/21/22 19:47*	*1*
2-Fluorobiphenyl	*72*		*43 - 145*	*09/19/22 14:02*	*09/21/22 19:47*	*1*
2-Fluorophenol	*67*		*31 - 166*	*09/19/22 14:02*	*09/21/22 19:47*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*09/19/22 14:02*	*09/21/22 19:47*	*1*
Phenol-d5	*82*		*30 - 153*	*09/19/22 14:02*	*09/21/22 19:47*	*1*
Terphenyl-d14 (Surr)	*118*		*42 - 157*	*09/19/22 14:02*	*09/21/22 19:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.29**	**J**	1.2	0.23	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Arsenic	**5.6**		0.60	0.20	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Barium	**27**		0.60	0.068	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Beryllium	**0.85**		0.24	0.056	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Boron	**15**		3.0	0.28	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Cadmium	**0.15**		0.12	0.021	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Calcium	**53000**		60	10	mg/Kg	☼	09/16/22 15:33	09/20/22 20:48	5
Chromium	**19**		0.60	0.29	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Cobalt	**13**		0.30	0.078	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Copper	**26**		0.60	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Iron	**19000**		12	6.2	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Lead	**14**		0.30	0.14	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Magnesium	**21000**		6.0	3.0	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Manganese	**300**		0.60	0.086	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Nickel	**32**		0.60	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Potassium	**3200**		30	11	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Silver	**0.27**	**J**	0.30	0.077	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Sodium	**420**		60	8.8	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Vanadium	**22**		0.30	0.070	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1
Zinc	**59**		1.2	0.52	mg/Kg	☼	09/16/22 15:33	09/19/22 18:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/19/22 08:57	09/20/22 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/22 08:57	09/20/22 13:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/19/22 08:57	09/20/22 13:57	1
Iron	<0.40		0.40	0.20	mg/L		09/19/22 08:57	09/20/22 13:57	1

Client Sample ID: 3835-1-B07-2

Date Collected: 09/06/22 13:10
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-10

Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		09/19/22 08:57	09/20/22 13:57	1
Manganese	<0.025		0.025	0.010	mg/L		09/19/22 08:57	09/20/22 13:57	1
Nickel	<0.025		0.025	0.010	mg/L		09/19/22 08:57	09/20/22 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.071**	**F1**	0.050	0.010	mg/L		09/19/22 09:03	09/20/22 19:43	1
Barium	**0.55**	**F1**	0.50	0.050	mg/L		09/19/22 09:03	09/20/22 19:43	1
Beryllium	**0.0081**	**F1**	0.0040	0.0040	mg/L		09/19/22 09:03	09/20/22 19:43	1
Boron	**0.20**	**F1**	0.10	0.050	mg/L		09/19/22 09:03	09/20/22 19:43	1
Cadmium	<0.0050	F1	0.0050	0.0020	mg/L		09/19/22 09:03	09/20/22 19:43	1
Calcium	**74**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:43	1
Chromium	**0.16**	**F1**	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:43	1
Cobalt	**0.051**	**F1**	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:43	1
Iron	**170**		0.40	0.20	mg/L		09/19/22 09:03	09/20/22 19:43	1
Lead	**0.086**	**F1**	0.0075	0.0075	mg/L		09/19/22 09:03	09/20/22 19:43	1
Manganese	**0.77**	**F1**	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:43	1
Nickel	**0.20**	**F1**	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:43	1
Potassium	**37**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:43	1
Selenium	<0.050	F1	0.050	0.020	mg/L		09/19/22 09:03	09/20/22 19:43	1
Silver	<0.025	F1	0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:43	1
Zinc	**0.40**	**J F1**	0.50	0.020	mg/L		09/19/22 09:03	09/20/22 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/19/22 09:03	09/20/22 01:08	1
Thallium	**0.0020**	**F1**	0.0020	0.0020	mg/L		09/19/22 09:03	09/20/22 01:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00025		0.00025	0.00025	mg/L		09/19/22 11:30	09/20/22 12:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.019	0.0063	mg/Kg	☼	09/19/22 16:35	09/20/22 07:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	☼	09/13/22 11:30	09/13/22 14:44	1
pH	**8.1**		0.2	0.2	SU			09/12/22 18:33	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Client Sample ID: 3835-1-B07-3

Date Collected: 09/06/22 15:20
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-11

Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	09/07/22 18:10	09/14/22 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*09/07/22 18:10*	*09/14/22 15:20*	*1*
4-Bromofluorobenzene (Surr)	*115*		*75 - 131*	*09/07/22 18:10*	*09/14/22 15:20*	*1*
Dibromofluoromethane	*111*		*75 - 126*	*09/07/22 18:10*	*09/14/22 15:20*	*1*
Toluene-d8 (Surr)	*115*		*75 - 124*	*09/07/22 18:10*	*09/14/22 15:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.60		0.60	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
1,2-Dichlorobenzene	<0.60		0.60	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
1,3-Dichlorobenzene	<0.60		0.60	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
1,4-Dichlorobenzene	<0.60		0.60	0.15	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2,2'-oxybis[1-chloropropane]	<0.60		0.60	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1

Client Sample ID: 3835-1-B07-3
Date Collected: 09/06/22 15:20
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-11
Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1.2		1.2	0.27	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2,4,6-Trichlorophenol	<1.2		1.2	0.41	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2,4-Dichlorophenol	<1.2		1.2	0.28	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2,4-Dimethylphenol	<1.2		1.2	0.45	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2,4-Dinitrophenol	<2.4		2.4	2.1	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2,4-Dinitrotoluene	<0.60		0.60	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2,6-Dinitrotoluene	<0.60		0.60	0.23	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2-Chloronaphthalene	<0.60		0.60	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2-Chlorophenol	<0.60		0.60	0.20	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2-Methylnaphthalene	**0.024**	**J**	0.24	0.022	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2-Methylphenol	<0.60		0.60	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2-Nitroaniline	<0.60		0.60	0.16	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
2-Nitrophenol	<1.2		1.2	0.28	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
3 & 4 Methylphenol	<0.60		0.60	0.20	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
3,3'-Dichlorobenzidine	<0.60		0.60	0.17	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
3-Nitroaniline	<1.2		1.2	0.37	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
4,6-Dinitro-2-methylphenol	<2.4		2.4	0.95	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
4-Bromophenyl phenyl ether	<0.60		0.60	0.16	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
4-Chloro-3-methylphenol	<1.2		1.2	0.40	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
4-Chloroaniline	<2.4		2.4	0.56	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
4-Chlorophenyl phenyl ether	<0.60		0.60	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
4-Nitroaniline	<1.2		1.2	0.50	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
4-Nitrophenol	<2.4		2.4	1.1	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Acenaphthene	<0.12		0.12	0.021	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Acenaphthylene	<0.12		0.12	0.016	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Anthracene	<0.12		0.12	0.020	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Benzo[a]anthracene	<0.12		0.12	0.016	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Benzo[a]pyrene	<0.12	*3	0.12	0.023	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Benzo[b]fluoranthene	<0.12	*3	0.12	0.026	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Benzo[g,h,i]perylene	<0.12	*3	0.12	0.038	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Benzo[k]fluoranthene	<0.12	*3	0.12	0.035	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Bis(2-chloroethoxy)methane	<0.60		0.60	0.12	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Bis(2-chloroethyl)ether	<0.60		0.60	0.18	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	0.22	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Butyl benzyl phthalate	<0.60		0.60	0.23	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Carbazole	<0.60		0.60	0.30	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Chrysene	<0.12		0.12	0.032	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Dibenz(a,h)anthracene	<0.12	*3	0.12	0.023	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Dibenzofuran	<0.60		0.60	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Diethyl phthalate	<0.60		0.60	0.20	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Dimethyl phthalate	<0.60		0.60	0.15	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Di-n-butyl phthalate	<0.60		0.60	0.18	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Di-n-octyl phthalate	<0.60		0.60	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Fluoranthene	<0.12		0.12	0.022	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Fluorene	<0.12		0.12	0.017	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Hexachlorobenzene	<0.24		0.24	0.027	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Hexachlorobutadiene	<0.60		0.60	0.19	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Hexachlorocyclopentadiene	<2.4		2.4	0.68	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Hexachloroethane	<0.60		0.60	0.18	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1

Client Sample ID: 3835-1-B07-3
Date Collected: 09/06/22 15:20
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-11
Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.12	*3	0.12	0.031	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Isophorone	<0.60		0.60	0.13	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Naphthalene	<0.12		0.12	0.018	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Nitrobenzene	<0.12		0.12	0.030	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
N-Nitrosodi-n-propylamine	<0.24		0.24	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
N-Nitrosodiphenylamine	<0.60		0.60	0.14	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Pentachlorophenol	<2.4		2.4	1.9	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Phenanthrene	**0.11**	**J**	0.12	0.017	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Phenol	<0.60		0.60	0.26	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1
Pyrene	**0.027**	**J**	0.12	0.024	mg/Kg	☼	09/19/22 14:02	09/21/22 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*31 - 143*	*09/19/22 14:02*	*09/21/22 20:08*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*09/19/22 14:02*	*09/21/22 20:08*	*1*
2-Fluorophenol	*92*		*31 - 166*	*09/19/22 14:02*	*09/21/22 20:08*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*09/19/22 14:02*	*09/21/22 20:08*	*1*
Phenol-d5	*78*		*30 - 153*	*09/19/22 14:02*	*09/21/22 20:08*	*1*
Terphenyl-d14 (Surr)	*130*		*42 - 157*	*09/19/22 14:02*	*09/21/22 20:08*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.57**	**J**	1.2	0.24	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Arsenic	**10**		0.61	0.21	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Barium	**42**		0.61	0.070	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Beryllium	**0.86**		0.24	0.057	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Boron	**13**		3.1	0.28	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Cadmium	**0.23**		0.12	0.022	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Calcium	**61000**		61	10	mg/Kg	☼	09/16/22 15:33	09/20/22 20:52	5
Chromium	**16**		0.61	0.30	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Cobalt	**18**		0.31	0.080	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Copper	**30**		0.61	0.17	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Iron	**25000**		12	6.4	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Lead	**45**		0.31	0.14	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Magnesium	**28000**		6.1	3.0	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Manganese	**360**		0.61	0.089	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Nickel	**48**		0.61	0.18	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Potassium	**2800**		31	11	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Silver	**0.27**	**J**	0.31	0.079	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Sodium	**500**		61	9.0	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Thallium	**0.53**	**J**	0.61	0.30	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Vanadium	**20**		0.31	0.072	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1
Zinc	**55**		1.2	0.54	mg/Kg	☼	09/16/22 15:33	09/19/22 18:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/19/22 08:57	09/20/22 13:08	1
Iron	<0.40		0.40	0.20	mg/L		09/19/22 08:57	09/20/22 13:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/19/22 08:57	09/20/22 13:08	1
Manganese	**1.4**	**B**	0.025	0.010	mg/L		09/19/22 08:57	09/20/22 13:08	1

Client Sample ID: 3835-1-B07-3
Date Collected: 09/06/22 15:20
Date Received: 09/07/22 13:11

Lab Sample ID: 500-221849-11
Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**0.067**		0.025	0.010	mg/L		09/19/22 08:57	09/20/22 13:08	1

Method: 6010B - 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		09/19/22 09:03	09/20/22 19:55	1
Barium	**0.35**	**J**	0.50	0.050	mg/L		09/19/22 09:03	09/20/22 19:55	1
Beryllium	**0.0050**		0.0040	0.0040	mg/L		09/19/22 09:03	09/20/22 19:55	1
Boron	**0.18**		0.10	0.050	mg/L		09/19/22 09:03	09/20/22 19:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/19/22 09:03	09/20/22 19:55	1
Calcium	**51**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:55	1
Chromium	**0.10**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:55	1
Cobalt	**0.042**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:55	1
Iron	**62**		0.40	0.20	mg/L		09/19/22 09:03	09/20/22 19:55	1
Lead	**0.045**		0.0075	0.0075	mg/L		09/19/22 09:03	09/20/22 19:55	1
Manganese	**0.61**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:55	1
Nickel	**0.12**		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:55	1
Potassium	**31**		2.5	0.50	mg/L		09/19/22 09:03	09/20/22 19:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/19/22 09:03	09/20/22 19:55	1
Silver	<0.025		0.025	0.010	mg/L		09/19/22 09:03	09/20/22 19:55	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		09/19/22 09:03	09/20/22 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/19/22 09:03	09/20/22 01:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/19/22 09:03	09/20/22 01:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/19/22 11:30	09/20/22 12:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.020	0.0065	mg/Kg	☼	09/19/22 16:35	09/20/22 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	☼	09/13/22 11:30	09/13/22 14:46	1
pH	**8.1**		0.2	0.2	SU			09/12/22 18:36	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-221849-1
Project/Site: IDOT - AE7-065

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery 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
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-065

Job ID: 500-221849-1

Laboratory: Eurofins Chicago

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

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

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

500-221849 COC

Client Contact	Laboratory	
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng com	Lab **Test America - Chicago** Address **2417 Bond Street** **University Park, IL 60484** Phone **708-534-5200** Contact **Dick Wright** email richard wright@testamericainc com	Project Name AE7-065A Project No PTB WO: 184-006/065A TAT ☐ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No 1 of 1

Lab Job No 500-22849

Sample Temp 9.6 → 2.6

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

Matrix Key:

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

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
	3835-1-B10-1	9/6/22	9:30	S	X	X					X	X	X	X	X					
	3835-1-B10-2		9:40																	
	3835-1-B10-3		9.50																	
	3835-1-B10-1 DUP		10:00																	
	3835-1-B08-1		11:10																	
	3835-1-B08-2		11 20																	
	3835-1-B08-3		11.30																	
	3835-1-B08-4		11.40																	
	3835-1-B07-1		13:00																	
	3835-1-B07-2		13:10																	
	3835-1-B07-3		3.20																	
	TRIP Blank #1	↓	—	↓	↓															

Relinquished by	Date/Time 9/7/22 1024	Received by	Date/Time 9/7/22 1024
Relinquished by	Date/Time 9/7/22 1311	Received by	Date/Time 9/7/22 1311
Relinquished by	Date/Time	Received by	Date/Time