Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1000 East Northwest Highway (northwest quadrant of Northwest Highway and Canadian Pacific Railroad)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04764 (Decimal Degrees) Longitude: -87.89954 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0310635351 BOW: BOA:

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

Estimated Volume of debris (cu. Yd.): 3,114

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.

Project Name: FAU 3512 (US 14) Latitude: 42.04764 Longitude: - 87.89954

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 3036-1-B01, 3036-1-B02, 3036-1-B03, 3036-1-B04, 3036-1-B05, 3036-1-B06 AND 3036-1-B07 WERE SAMPLED ADJACENT TO SITE 3036V-1. SEE TABLE 3a AND FIGURES 2 AND 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-202027-1.

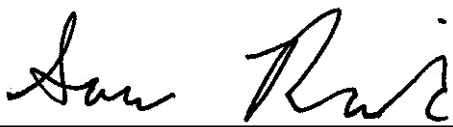
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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:

Sep 3, 2021
Date:

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

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 3036V-1

Dayton Freight Lines

Sample ID	3036-1-B01	3036-1-B02	3036-1-B03	3036-1-B04	3036-1-B05-1	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-5	0-6	0-6	0-7	0-5					
Sample Date	7/7/2021	7/7/2021	7/7/2021	7/7/2021	7/7/2021					
PID	0	0	0	0	0					
Sample pH	8	8.5	8.7	8.7	8.4	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	3036-1-B05-2	3036-1-B05-3	3036-1-B06-1	3036-1-B06-2	3036-1-B07-1	**Maximum Allowable Concentration**				
Sample Depth (ft)	5-10	10-16	0-6.5	6.5-13	0-6					
Sample Date	7/7/2021	7/7/2021	7/7/2021	7/7/2021	7/7/2021					
PID	0	0	0	0	0					
Sample pH	7.9	7.9	8.2	8.2	8.2	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	3036-1-B07-2	3036-1-B07-2 DUP	**Maximum Allowable Concentration**				
Sample Depth (ft)	6-12	6-12					
Sample Date	7/7/2021	7/7/2021					
PID	0	0					
Sample pH	8.1	8.4	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202027-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/22/2021 5:05:56 PM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B01
Date Collected: 07/07/21 14:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-1
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Acetone	**0.032**		0.017	0.0076	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Benzene	**0.0013**	**J**	0.0017	0.00044	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Toluene	**0.0022**		0.0017	0.00044	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1
Xylenes, Total	**0.00088**	**J**	0.0035	0.00056	mg/Kg	☼	07/07/21 14:10	07/14/21 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*07/07/21 14:10*	*07/14/21 18:00*	*1*
4-Bromofluorobenzene (Surr)	*88*		*75 - 131*	*07/07/21 14:10*	*07/14/21 18:00*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*07/07/21 14:10*	*07/14/21 18:00*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*07/07/21 14:10*	*07/14/21 18:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1

Client Sample ID: 3036-1-B01
Date Collected: 07/07/21 14:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-1
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2-Methylnaphthalene	**0.012**	**J**	0.079	0.0072	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Acenaphthene	**0.0077**	**J**	0.039	0.0071	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Benzo[g,h,i]perylene	**0.021**	**J**	0.039	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Chrysene	**0.015**	**J**	0.039	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1

Client Sample ID: 3036-1-B01
Date Collected: 07/07/21 14:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-1
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Phenanthrene	**0.036**	**J**	0.039	0.0055	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1
Pyrene	**0.013**	**J**	0.039	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*31 - 143*	*07/15/21 07:42*	*07/16/21 12:58*	*1*
2-Fluorobiphenyl	*90*		*43 - 145*	*07/15/21 07:42*	*07/16/21 12:58*	*1*
2-Fluorophenol	*109*		*31 - 166*	*07/15/21 07:42*	*07/16/21 12:58*	*1*
Nitrobenzene-d5 (Surr)	*88*		*37 - 147*	*07/15/21 07:42*	*07/16/21 12:58*	*1*
Phenol-d5	*109*		*30 - 153*	*07/15/21 07:42*	*07/16/21 12:58*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*07/15/21 07:42*	*07/16/21 12:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.47**	**J**	1.1	0.21	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Arsenic	**4.7**		0.54	0.19	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Barium	**43**		0.54	0.062	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Beryllium	**0.55**		0.22	0.051	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Boron	**17**		2.7	0.25	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Cadmium	**0.15**	**B**	0.11	0.020	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Calcium	**66000**	**B**	54	9.2	mg/Kg	☼	07/19/21 09:04	07/22/21 11:55	5
Chromium	**18**		0.54	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Cobalt	**12**		0.27	0.071	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Copper	**22**		0.54	0.15	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Iron	**16000**		11	5.7	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Lead	**12**		0.27	0.13	mg/Kg	☼	07/19/21 09:04	07/22/21 11:45	1
Magnesium	**26000**	**B**	5.4	2.7	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Manganese	**350**	**B**	0.54	0.079	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Nickel	**31**		0.54	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Potassium	**3100**		27	9.6	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Sodium	**280**		54	8.0	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Vanadium	**22**		0.27	0.064	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1
Zinc	**49**		1.1	0.48	mg/Kg	☼	07/19/21 09:04	07/22/21 02:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 18:53	07/19/21 20:37	1
Iron	<0.40		0.40	0.20	mg/L		07/15/21 18:53	07/19/21 20:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 18:53	07/19/21 20:37	1
Manganese	**1.8**		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:37	1

Client Sample ID: 3036-1-B01
Date Collected: 07/07/21 14:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-1
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**0.014**	**J**	0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**	**J**	0.050	0.010	mg/L		07/15/21 16:45	07/19/21 17:57	1
Barium	**0.33**	**J**	0.50	0.050	mg/L		07/15/21 16:45	07/19/21 17:57	1
Beryllium	**0.0050**		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 17:57	1
Boron	**0.17**		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 17:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 17:57	1
Calcium	**50**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 17:57	1
Chromium	**0.10**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 17:57	1
Cobalt	**0.040**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 17:57	1
Iron	**74**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 17:57	1
Lead	**0.044**		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 17:57	1
Manganese	**0.70**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 17:57	1
Nickel	**0.11**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 17:57	1
Potassium	**27**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 17:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 17:57	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 17:57	1
Zinc	**0.17**	**J ^2**	0.50	0.020	mg/L		07/15/21 16:45	07/19/21 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 17:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.019	0.0063	mg/Kg	☼	07/19/21 14:35	07/20/21 07:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	☼	07/16/21 12:28	07/16/21 16:15	1
pH	**8.0**		0.2	0.2	SU			07/13/21 19:11	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B02
Date Collected: 07/07/21 14:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-2
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0012	J	0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Acetone	0.027		0.018	0.0080	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*07/08/21 19:50*	*07/13/21 16:05*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*07/08/21 19:50*	*07/13/21 16:05*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*07/08/21 19:50*	*07/13/21 16:05*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*07/08/21 19:50*	*07/13/21 16:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B02
Date Collected: 07/07/21 14:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-2
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Benzo[g,h,i]perylene	<0.040	F1	0.040	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Hexachlorocyclopentadiene	<0.82	F1	0.82	0.23	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B02
Date Collected: 07/07/21 14:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-2
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Phenanthrene	**0.0056**	**J**	0.040	0.0056	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	07/15/21 07:42	07/16/21 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*31 - 143*	*07/15/21 07:42*	*07/16/21 13:20*	*1*
2-Fluorobiphenyl	*89*		*43 - 145*	*07/15/21 07:42*	*07/16/21 13:20*	*1*
2-Fluorophenol	*114*		*31 - 166*	*07/15/21 07:42*	*07/16/21 13:20*	*1*
Nitrobenzene-d5 (Surr)	*81*		*37 - 147*	*07/15/21 07:42*	*07/16/21 13:20*	*1*
Phenol-d5	*124*		*30 - 153*	*07/15/21 07:42*	*07/16/21 13:20*	*1*
Terphenyl-d14 (Surr)	*103*		*42 - 157*	*07/15/21 07:42*	*07/16/21 13:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.71**	**J**	1.2	0.23	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Arsenic	**11**		0.60	0.20	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Barium	**76**		0.60	0.068	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Beryllium	**0.61**		0.24	0.056	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Boron	**8.3**		3.0	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Cadmium	**0.20**	**B**	0.12	0.021	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Calcium	**24000**	**B**	12	2.0	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Chromium	**15**		0.60	0.30	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Cobalt	**11**		0.30	0.078	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Copper	**35**		0.60	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Iron	**25000**		12	6.2	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Lead	**22**		0.30	0.14	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Magnesium	**16000**	**B**	6.0	3.0	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Manganese	**560**	**B**	0.60	0.087	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Nickel	**30**		0.60	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Potassium	**1500**		30	11	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Sodium	**2400**		60	8.8	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Thallium	**2.9**	**J**	3.0	1.5	mg/Kg	☼	07/19/21 09:04	07/22/21 11:58	5
Vanadium	**26**		0.30	0.070	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1
Zinc	**72**		1.2	0.52	mg/Kg	☼	07/19/21 09:04	07/22/21 02:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 18:53	07/19/21 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 18:53	07/19/21 20:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:41	1
Iron	<0.40		0.40	0.20	mg/L		07/15/21 18:53	07/19/21 20:41	1

Client Sample ID: 3036-1-B02

Date Collected: 07/07/21 14:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-2

Matrix: Solid
Percent Solids: 79.9

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		07/15/21 18:53	07/19/21 20:41	1
Manganese	**9.7**		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:41	1
Nickel	**0.050**		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.077**		0.050	0.010	mg/L		07/15/21 16:45	07/19/21 18:00	1
Barium	**0.86**		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:00	1
Beryllium	**0.0091**		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:00	1
Boron	**0.16**		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:00	1
Calcium	**25**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:00	1
Chromium	**0.17**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:00	1
Cobalt	**0.065**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:00	1
Iron	**180**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:00	1
Lead	**0.13**		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:00	1
Manganese	**1.4**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:00	1
Nickel	**0.20**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:00	1
Potassium	**17**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:00	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:00	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:00	1
Zinc	**0.54**	**^2**	0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 18:53	07/21/21 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 17:17	1
Thallium	**0.0031**		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:17	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		07/16/21 10:10	07/19/21 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**		0.021	0.0068	mg/Kg	☼	07/19/21 14:35	07/20/21 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.14**	**J**	0.26	0.13	mg/Kg	☼	07/16/21 12:28	07/16/21 16:16	1
pH	**8.5**		0.2	0.2	SU			07/13/21 19:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B03
Date Collected: 07/07/21 13:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-3
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Acetone	**0.039**		0.018	0.0077	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Carbon disulfide	**0.00097**	**J**	0.0044	0.00092	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
cis-1,2-Dichloroethene	**0.00051**	**J**	0.0018	0.00050	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	07/08/21 19:50	07/13/21 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*07/08/21 19:50*	*07/13/21 16:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*07/08/21 19:50*	*07/13/21 16:30*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*07/08/21 19:50*	*07/13/21 16:30*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/13/21 16:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B03
Date Collected: 07/07/21 13:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-3
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B03
Date Collected: 07/07/21 13:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-3
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	07/15/21 07:42	07/16/21 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*31 - 143*	*07/15/21 07:42*	*07/16/21 13:42*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*07/15/21 07:42*	*07/16/21 13:42*	*1*
2-Fluorophenol	*97*		*31 - 166*	*07/15/21 07:42*	*07/16/21 13:42*	*1*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*	*07/15/21 07:42*	*07/16/21 13:42*	*1*
Phenol-d5	*94*		*30 - 153*	*07/15/21 07:42*	*07/16/21 13:42*	*1*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*07/15/21 07:42*	*07/16/21 13:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.41**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Arsenic	**6.7**		0.57	0.19	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Barium	**86**		0.57	0.065	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Beryllium	**0.70**		0.23	0.053	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Boron	**9.9**		2.8	0.26	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Cadmium	**0.18**	**B**	0.11	0.020	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Calcium	**23000**	**B**	11	1.9	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Chromium	**19**		0.57	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Cobalt	**11**		0.28	0.074	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Copper	**23**		0.57	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Iron	**17000**		11	5.9	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Lead	**15**		0.28	0.13	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Magnesium	**14000**	**B**	5.7	2.8	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Manganese	**280**	**B**	0.57	0.082	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Nickel	**30**		0.57	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Potassium	**2100**		28	10	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Selenium	**0.33**	**J**	0.57	0.33	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Sodium	**2600**		57	8.4	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Vanadium	**28**		0.28	0.067	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1
Zinc	**49**		1.1	0.50	mg/Kg	☼	07/19/21 09:04	07/22/21 02:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 18:53	07/19/21 20:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 18:53	07/19/21 20:44	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:44	1
Iron	<0.40		0.40	0.20	mg/L		07/15/21 18:53	07/19/21 20:44	1

Client Sample ID: 3036-1-B03

Date Collected: 07/07/21 13:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-3

Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 18:53	07/19/21 20:44	1
Manganese	**2.2**		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:44	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.10**		0.050	0.010	mg/L		07/15/21 16:45	07/19/21 18:03	1
Barium	**1.0**		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:03	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:03	1
Boron	**0.20**		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:03	1
Calcium	**62**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:03	1
Chromium	**0.22**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:03	1
Cobalt	**0.11**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:03	1
Iron	**240**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:03	1
Lead	**0.15**		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:03	1
Manganese	**1.8**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:03	1
Nickel	**0.31**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:03	1
Potassium	**28**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:03	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:03	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:03	1
Zinc	**0.63**	**^2**	0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 18:53	07/21/21 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 17:21	1
Thallium	**0.0042**		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:21	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		07/16/21 10:10	07/19/21 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.019	0.0063	mg/Kg	☼	07/19/21 14:35	07/20/21 07:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	☼	07/16/21 12:28	07/16/21 16:18	1
pH	**8.7**		0.2	0.2	SU			07/13/21 19:16	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B04
Date Collected: 07/07/21 13:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-4
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
1,1-Dichloroethane	**0.00081**	**J**	0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
1,2-Dichloropropane	**0.0014**	**J**	0.0016	0.00041	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*07/08/21 19:50*	*07/14/21 14:11*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*07/08/21 19:50*	*07/14/21 14:11*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*07/08/21 19:50*	*07/14/21 14:11*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*07/08/21 19:50*	*07/14/21 14:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B04
Date Collected: 07/07/21 13:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-4
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Chrysene	**0.011**	**J**	0.035	0.0096	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B04
Date Collected: 07/07/21 13:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-4
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Phenol	<0.18		0.18	0.078	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	07/15/21 07:42	07/16/21 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*31 - 143*	*07/15/21 07:42*	*07/16/21 14:04*	*1*
2-Fluorobiphenyl	*86*		*43 - 145*	*07/15/21 07:42*	*07/16/21 14:04*	*1*
2-Fluorophenol	*111*		*31 - 166*	*07/15/21 07:42*	*07/16/21 14:04*	*1*
Nitrobenzene-d5 (Surr)	*75*		*37 - 147*	*07/15/21 07:42*	*07/16/21 14:04*	*1*
Phenol-d5	*113*		*30 - 153*	*07/15/21 07:42*	*07/16/21 14:04*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*07/15/21 07:42*	*07/16/21 14:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.42**	**J**	1.0	0.20	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Arsenic	**5.7**		0.52	0.18	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Barium	**44**		0.52	0.059	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Beryllium	**0.61**		0.21	0.048	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Boron	**15**		2.6	0.24	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Cadmium	**0.13**	**B**	0.10	0.019	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Calcium	**55000**	**B**	52	8.8	mg/Kg	☼	07/19/21 09:04	07/22/21 12:04	5
Chromium	**16**		0.52	0.26	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Cobalt	**11**		0.26	0.068	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Copper	**21**		0.52	0.14	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Iron	**16000**		10	5.4	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Lead	**11**		0.26	0.12	mg/Kg	☼	07/19/21 09:04	07/22/21 12:01	1
Magnesium	**23000**	**B**	5.2	2.6	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Manganese	**340**	**B**	0.52	0.075	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Nickel	**29**		0.52	0.15	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Potassium	**3000**		26	9.2	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Selenium	<0.52		0.52	0.30	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Sodium	**580**		52	7.7	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Vanadium	**20**		0.26	0.061	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1
Zinc	**43**		1.0	0.45	mg/Kg	☼	07/19/21 09:04	07/22/21 02:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 18:53	07/19/21 20:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 18:53	07/19/21 20:48	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:48	1
Iron	<0.40		0.40	0.20	mg/L		07/15/21 18:53	07/19/21 20:48	1

Client Sample ID: 3036-1-B04
Date Collected: 07/07/21 13:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-4
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 18:53	07/19/21 20:48	1
Manganese	**1.0**		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:48	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.096**		0.050	0.010	mg/L		07/15/21 16:45	07/19/21 18:06	1
Barium	**0.57**		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:06	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:06	1
Boron	**0.25**		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:06	1
Calcium	**75**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:06	1
Chromium	**0.20**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:06	1
Cobalt	**0.090**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:06	1
Iron	**210**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:06	1
Lead	**0.11**		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:06	1
Manganese	**1.4**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:06	1
Nickel	**0.30**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:06	1
Potassium	**40**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:06	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:06	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:06	1
Zinc	**0.56**	**^2**	0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 18:53	07/21/21 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 17:24	1
Thallium	**0.0038**		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 09:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.016	0.0053	mg/Kg	☼	07/19/21 14:35	07/20/21 07:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/16/21 12:28	07/16/21 16:20	1
pH	**8.7**		0.2	0.2	SU			07/13/21 19:18	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-1
Date Collected: 07/07/21 13:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-5
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	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	07/08/21 19:50	07/13/21 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*07/08/21 19:50*	*07/13/21 17:20*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*07/08/21 19:50*	*07/13/21 17:20*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/08/21 19:50*	*07/13/21 17:20*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/13/21 17:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1

Client Sample ID: 3036-1-B05-1
Date Collected: 07/07/21 13:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-5
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	<0.36		0.36	0.084	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2-Methylnaphthalene	**0.011**	**J**	0.074	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Benzo[a]anthracene	**0.0070**	**J**	0.036	0.0049	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Benzo[b]fluoranthene	**0.011**	**J**	0.036	0.0079	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Benzo[g,h,i]perylene	**0.012**	**J**	0.036	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Chrysene	**0.015**	**J**	0.036	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Fluoranthene	**0.015**	**J**	0.036	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-1

Date Collected: 07/07/21 13:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-5

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	<0.036		0.036	0.0095	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Phenanthrene	**0.036**		0.036	0.0051	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Phenol	<0.18		0.18	0.082	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1
Pyrene	**0.025**	**J**	0.036	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*31 - 143*	*07/15/21 07:42*	*07/16/21 14:26*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*07/15/21 07:42*	*07/16/21 14:26*	*1*
2-Fluorophenol	*105*		*31 - 166*	*07/15/21 07:42*	*07/16/21 14:26*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*07/15/21 07:42*	*07/16/21 14:26*	*1*
Phenol-d5	*108*		*30 - 153*	*07/15/21 07:42*	*07/16/21 14:26*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*07/15/21 07:42*	*07/16/21 14:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.37**	**J**	1.1	0.21	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Arsenic	**5.7**		0.54	0.18	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Barium	**38**		0.54	0.061	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Beryllium	**0.57**		0.22	0.050	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Boron	**15**		2.7	0.25	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Cadmium	**0.15**	**B**	0.11	0.019	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Calcium	**57000**	**B**	54	9.1	mg/Kg	☼	07/19/21 09:04	07/22/21 12:11	5
Chromium	**17**		0.54	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Cobalt	**12**		0.27	0.070	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Copper	**24**		0.54	0.15	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Iron	**17000**		11	5.6	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Lead	**12**		0.27	0.12	mg/Kg	☼	07/19/21 09:04	07/22/21 12:07	1
Magnesium	**23000**	**B**	5.4	2.7	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Manganese	**330**	**B**	0.54	0.078	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Nickel	**32**		0.54	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Potassium	**3100**		27	9.5	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Selenium	**0.37**	**J**	0.54	0.32	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Silver	<0.27		0.27	0.069	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Sodium	**1100**		54	8.0	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Vanadium	**22**		0.27	0.063	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1
Zinc	**47**		1.1	0.47	mg/Kg	☼	07/19/21 09:04	07/22/21 02:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 18:53	07/19/21 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 18:53	07/19/21 20:52	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:52	1
Iron	<0.40		0.40	0.20	mg/L		07/15/21 18:53	07/19/21 20:52	1

Client Sample ID: 3036-1-B05-1

Date Collected: 07/07/21 13:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-5

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		07/15/21 18:53	07/19/21 20:52	1
Manganese	**0.59**		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:52	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.069**	**F1**	0.050	0.010	mg/L		07/15/21 16:45	07/19/21 18:09	1
Barium	**0.51**		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:09	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:09	1
Boron	**0.26**		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:09	1
Calcium	**83**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:09	1
Chromium	**0.22**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:09	1
Cobalt	**0.078**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:09	1
Iron	**190**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:09	1
Lead	**0.11**		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:09	1
Manganese	**0.96**	**F1**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:09	1
Nickel	**0.26**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:09	1
Potassium	**48**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:09	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:09	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:09	1
Zinc	**0.50**	**^2**	0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 18:53	07/21/21 17:23	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		07/15/21 16:45	07/16/21 17:28	1
Thallium	**0.0037**		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:28	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		07/16/21 10:10	07/19/21 09:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.018	0.0060	mg/Kg	☼	07/19/21 14:35	07/20/21 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	☼	07/16/21 12:28	07/16/21 16:22	1
pH	**8.4**		0.2	0.2	SU			07/13/21 19:21	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-2

Date Collected: 07/07/21 13:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-6

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	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Acetone	**0.0096**	**J**	0.017	0.0075	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/08/21 19:50	07/13/21 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*07/08/21 19:50*	*07/13/21 17:46*	*1*
4-Bromofluorobenzene (Surr)	*89*		*75 - 131*	*07/08/21 19:50*	*07/13/21 17:46*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*07/08/21 19:50*	*07/13/21 17:46*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/13/21 17:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-2
Date Collected: 07/07/21 13:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-6
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	<0.39		0.39	0.090	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-2
Date Collected: 07/07/21 13:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-6
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	<0.039		0.039	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Phenanthrene	**0.043**		0.039	0.0055	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1
Pyrene	**0.012**	**J**	0.039	0.0079	mg/Kg	☼	07/15/21 07:42	07/16/21 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*54*		*31 - 143*	*07/15/21 07:42*	*07/16/21 14:48*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*07/15/21 07:42*	*07/16/21 14:48*	*1*
2-Fluorophenol	*107*		*31 - 166*	*07/15/21 07:42*	*07/16/21 14:48*	*1*
Nitrobenzene-d5 (Surr)	*75*		*37 - 147*	*07/15/21 07:42*	*07/16/21 14:48*	*1*
Phenol-d5	*104*		*30 - 153*	*07/15/21 07:42*	*07/16/21 14:48*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*07/15/21 07:42*	*07/16/21 14:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.46**	**J**	1.2	0.22	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Arsenic	**4.9**		0.58	0.20	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Barium	**42**		0.58	0.066	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Beryllium	**0.65**		0.23	0.054	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Boron	**20**		2.9	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Cadmium	**0.19**	**B**	0.12	0.021	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Calcium	**69000**	**B**	58	9.8	mg/Kg	☼	07/19/21 09:04	07/22/21 12:17	5
Chromium	**18**		0.58	0.29	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Cobalt	**12**		0.29	0.076	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Copper	**22**		0.58	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Iron	**17000**		12	6.0	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Lead	**11**		0.29	0.13	mg/Kg	☼	07/19/21 09:04	07/22/21 12:14	1
Magnesium	**26000**	**B**	5.8	2.9	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Manganese	**320**	**B**	0.58	0.084	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Nickel	**31**		0.58	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Potassium	**3700**		29	10	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Sodium	**430**		58	8.6	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Vanadium	**24**		0.29	0.068	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1
Zinc	**64**		1.2	0.51	mg/Kg	☼	07/19/21 09:04	07/22/21 02:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		07/15/21 18:53	07/19/21 20:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-2

Date Collected: 07/07/21 13:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-6

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 16:45	07/19/21 18:29	1
Barium	**0.050**	**J**	0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:29	1
Boron	**0.060**	**J**	0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:29	1
Calcium	**16**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:29	1
Chromium	**0.010**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:29	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:29	1
Iron	**5.5**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:29	1
Manganese	**0.070**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:29	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:29	1
Potassium	**5.0**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:29	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:29	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:29	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 17:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:48	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		07/16/21 10:10	07/19/21 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.018	0.0059	mg/Kg	☼	07/19/21 14:35	07/20/21 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/16/21 12:28	07/16/21 16:23	1
pH	**7.9**		0.2	0.2	SU			07/13/21 19:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-3

Date Collected: 07/07/21 13:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-7

Matrix: Solid
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Acetone	**0.0090**	**J**	0.018	0.0077	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	07/08/21 19:50	07/13/21 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*07/08/21 19:50*	*07/13/21 18:11*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*07/08/21 19:50*	*07/13/21 18:11*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*07/08/21 19:50*	*07/13/21 18:11*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*07/08/21 19:50*	*07/13/21 18:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1

Client Sample ID: 3036-1-B05-3
Date Collected: 07/07/21 13:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-7
Matrix: Solid
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2-Methylnaphthalene	**0.0083**	**J**	0.082	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Benzo[a]anthracene	**0.0058**	**J**	0.040	0.0055	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Bis(2-ethylhexyl) phthalate	**0.23**		0.20	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Di-n-butyl phthalate	**0.46**		0.20	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-3
Date Collected: 07/07/21 13:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-7
Matrix: Solid
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Phenanthrene	**0.022**	**J**	0.040	0.0057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1
Pyrene	**0.010**	**J**	0.040	0.0081	mg/Kg	☼	07/15/21 07:42	07/16/21 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*44*		*31 - 143*	*07/15/21 07:42*	*07/16/21 15:10*	*1*
2-Fluorobiphenyl	*79*		*43 - 145*	*07/15/21 07:42*	*07/16/21 15:10*	*1*
2-Fluorophenol	*99*		*31 - 166*	*07/15/21 07:42*	*07/16/21 15:10*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*07/15/21 07:42*	*07/16/21 15:10*	*1*
Phenol-d5	*95*		*30 - 153*	*07/15/21 07:42*	*07/16/21 15:10*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*07/15/21 07:42*	*07/16/21 15:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.37**	**J**	1.2	0.23	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Arsenic	**6.1**		0.59	0.20	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Barium	**51**		0.59	0.067	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Beryllium	**0.66**		0.24	0.055	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Boron	**21**		2.9	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Cadmium	**0.096**	**J B**	0.12	0.021	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Calcium	**65000**	**B**	59	10	mg/Kg	☼	07/19/21 09:04	07/22/21 12:24	5
Chromium	**19**		0.59	0.29	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Cobalt	**12**		0.29	0.077	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Copper	**22**		0.59	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Iron	**18000**		12	6.1	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Lead	**12**		0.29	0.14	mg/Kg	☼	07/19/21 09:04	07/22/21 12:20	1
Magnesium	**25000**	**B**	5.9	2.9	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Manganese	**340**	**B**	0.59	0.085	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Nickel	**32**		0.59	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Potassium	**3800**		29	10	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Sodium	**230**		59	8.7	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Vanadium	**24**		0.29	0.070	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1
Zinc	**46**		1.2	0.52	mg/Kg	☼	07/19/21 09:04	07/22/21 03:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 16:45	07/19/21 18:32	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:32	1
Boron	**0.052**	**J**	0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:32	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B05-3
Date Collected: 07/07/21 13:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-7
Matrix: Solid
Percent Solids: 81.1

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		07/15/21 16:45	07/19/21 18:32	1
Calcium	**16**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:32	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:32	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:32	1
Iron	**0.58**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:32	1
Manganese	**0.017**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:32	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:32	1
Potassium	**2.0**	**J**	2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:32	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:32	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:32	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 17:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.020	0.0065	mg/Kg	☼	07/19/21 14:35	07/20/21 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	☼	07/16/21 12:28	07/16/21 16:25	1
pH	**7.9**		0.2	0.2	SU			07/13/21 19:28	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B06-1
Date Collected: 07/07/21 12:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-8
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00055	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Acetone	**0.026**		0.017	0.0076	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	07/08/21 19:50	07/13/21 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*07/08/21 19:50*	*07/13/21 18:36*	*1*
4-Bromofluorobenzene (Surr)	*88*	*3	*75 - 131*	*07/08/21 19:50*	*07/13/21 18:36*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*07/08/21 19:50*	*07/13/21 18:36*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*07/08/21 19:50*	*07/13/21 18:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B06-1
Date Collected: 07/07/21 12:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-8
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2-Methylnaphthalene	**0.019**	**J**	0.078	0.0071	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Benzo[g,h,i]perylene	**0.013**	**J**	0.038	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1

Client Sample ID: 3036-1-B06-1

Date Collected: 07/07/21 12:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-8

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Phenanthrene	**0.040**		0.038	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1
Pyrene	**0.012**	**J**	0.038	0.0077	mg/Kg	☼	07/15/21 07:42	07/16/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*31 - 143*	*07/15/21 07:42*	*07/16/21 15:32*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*07/15/21 07:42*	*07/16/21 15:32*	*1*
2-Fluorophenol	*113*		*31 - 166*	*07/15/21 07:42*	*07/16/21 15:32*	*1*
Nitrobenzene-d5 (Surr)	*81*		*37 - 147*	*07/15/21 07:42*	*07/16/21 15:32*	*1*
Phenol-d5	*107*		*30 - 153*	*07/15/21 07:42*	*07/16/21 15:32*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*07/15/21 07:42*	*07/16/21 15:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.45**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Arsenic	**10**		0.57	0.19	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Barium	**60**		0.57	0.065	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Beryllium	**0.69**		0.23	0.053	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Boron	**19**		2.8	0.26	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Cadmium	**0.090**	**J B**	0.11	0.020	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Calcium	**66000**	**B**	57	9.6	mg/Kg	☼	07/19/21 09:04	07/22/21 12:36	5
Chromium	**18**		0.57	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Cobalt	**11**		0.28	0.074	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Copper	**21**		0.57	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Iron	**19000**		11	5.9	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Lead	**14**		0.28	0.13	mg/Kg	☼	07/19/21 09:04	07/22/21 12:33	1
Magnesium	**24000**	**B**	5.7	2.8	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Manganese	**310**	**B**	0.57	0.082	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Nickel	**30**		0.57	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Potassium	**3600**		28	10	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Sodium	**1000**		57	8.4	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Vanadium	**24**		0.28	0.067	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1
Zinc	**45**		1.1	0.50	mg/Kg	☼	07/19/21 09:04	07/22/21 03:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/15/21 18:53	07/19/21 21:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 18:53	07/19/21 21:03	1
Manganese	**1.4**		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 21:03	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B06-1

Date Collected: 07/07/21 12:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-8

Matrix: Solid
Percent Solids: 84.6

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		07/15/21 16:45	07/19/21 18:35	1
Barium	**0.22**	**J**	0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:35	1
Boron	**0.13**		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:35	1
Calcium	**35**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:35	1
Chromium	**0.065**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:35	1
Cobalt	**0.022**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:35	1
Iron	**38**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:35	1
Lead	**0.021**		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:35	1
Manganese	**0.38**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:35	1
Nickel	**0.066**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:35	1
Potassium	**20**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:35	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:35	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:35	1
Zinc	**0.084**	**J ^2**	0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.019	0.0062	mg/Kg	☼	07/19/21 14:35	07/20/21 07:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	☼	07/16/21 12:28	07/16/21 16:30	1
pH	**8.2**		0.2	0.2	SU			07/13/21 19:33	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B06-2
Date Collected: 07/07/21 13:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-9
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Acetone	**0.0082**	**J**	0.018	0.0080	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Trichloroethene	**0.00078**	**J**	0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/08/21 19:50*	*07/14/21 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*07/07/21 13:00*	*07/15/21 13:28*	*1*
4-Bromofluorobenzene (Surr)	*88*		*75 - 131*	*07/08/21 19:50*	*07/14/21 18:26*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*	*07/07/21 13:00*	*07/15/21 13:28*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*07/08/21 19:50*	*07/14/21 18:26*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*07/07/21 13:00*	*07/15/21 13:28*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*07/08/21 19:50*	*07/14/21 18:26*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*07/07/21 13:00*	*07/15/21 13:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B06-2
Date Collected: 07/07/21 13:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-9
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1

Client Sample ID: 3036-1-B06-2
Date Collected: 07/07/21 13:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-9
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Phenanthrene	**0.018**	**J**	0.039	0.0055	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1
Pyrene	**0.012**	**J**	0.039	0.0079	mg/Kg	☼	07/15/21 07:42	07/16/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*31 - 143*	*07/15/21 07:42*	*07/16/21 15:54*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*07/15/21 07:42*	*07/16/21 15:54*	*1*
2-Fluorophenol	*106*		*31 - 166*	*07/15/21 07:42*	*07/16/21 15:54*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*07/15/21 07:42*	*07/16/21 15:54*	*1*
Phenol-d5	*109*		*30 - 153*	*07/15/21 07:42*	*07/16/21 15:54*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*07/15/21 07:42*	*07/16/21 15:54*	*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	☼	07/19/21 09:04	07/22/21 03:08	1
Arsenic	**6.9**		0.57	0.20	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Barium	**29**		0.57	0.066	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Beryllium	**0.46**		0.23	0.054	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Boron	**16**		2.9	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Cadmium	**0.11**	**B**	0.11	0.021	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Calcium	**87000**	**B**	57	9.7	mg/Kg	☼	07/19/21 09:04	07/22/21 12:43	5
Chromium	**13**		0.57	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Cobalt	**10**		0.29	0.075	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Copper	**22**		0.57	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Iron	**22000**		57	30	mg/Kg	☼	07/19/21 09:04	07/22/21 12:43	5
Lead	**13**		0.29	0.13	mg/Kg	☼	07/19/21 09:04	07/22/21 12:39	1
Magnesium	**49000**	**B**	29	14	mg/Kg	☼	07/19/21 09:04	07/22/21 12:43	5
Manganese	**460**	**B**	0.57	0.083	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Nickel	**24**		0.57	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Potassium	**2700**		29	10	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Selenium	**0.45**	**J**	0.57	0.34	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Sodium	**250**		57	8.5	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Vanadium	**18**		0.29	0.068	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1
Zinc	**36**		1.1	0.50	mg/Kg	☼	07/19/21 09:04	07/22/21 03:08	1

Client Sample ID: 3036-1-B06-2

Date Collected: 07/07/21 13:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-9

Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 16:45	07/19/21 18:38	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:38	1
Boron	**0.052**	**J**	0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:38	1
Calcium	**14**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:38	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:38	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:38	1
Iron	**1.8**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:38	1
Manganese	**0.026**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:38	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:38	1
Potassium	**2.3**	**J**	2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:38	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:38	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:38	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:38	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		07/15/21 16:45	07/16/21 17:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**J**	0.020	0.0066	mg/Kg	☼	07/19/21 14:35	07/20/21 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	☼	07/16/21 12:28	07/16/21 16:32	1
pH	**8.2**		0.2	0.2	SU			07/13/21 19:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-1

Date Collected: 07/07/21 12:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-10

Matrix: Solid
Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Acetone	**0.0074**	**J**	0.017	0.0072	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Trichloroethene	**0.00071**	**J**	0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*07/08/21 19:50*	*07/14/21 15:01*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*07/08/21 19:50*	*07/14/21 15:01*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/08/21 19:50*	*07/14/21 15:01*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/14/21 15:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-1
Date Collected: 07/07/21 12:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-10
Matrix: Solid
Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2-Methylnaphthalene	**0.016**	**J**	0.076	0.0069	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-1
Date Collected: 07/07/21 12:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-10
Matrix: Solid
Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Phenanthrene	**0.020**	**J**	0.037	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1
Pyrene	**0.0083**	**J**	0.037	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*54*		*31 - 143*	*07/15/21 07:42*	*07/16/21 16:16*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*07/15/21 07:42*	*07/16/21 16:16*	*1*
2-Fluorophenol	*109*		*31 - 166*	*07/15/21 07:42*	*07/16/21 16:16*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*07/15/21 07:42*	*07/16/21 16:16*	*1*
Phenol-d5	*100*		*30 - 153*	*07/15/21 07:42*	*07/16/21 16:16*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*07/15/21 07:42*	*07/16/21 16:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Arsenic	**8.3**		0.56	0.19	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Barium	**43**		0.56	0.064	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Beryllium	**0.94**		0.22	0.052	mg/Kg	☼	07/19/21 09:04	07/22/21 12:46	1
Boron	**21**		2.8	0.26	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Cadmium	**0.11**	**B**	0.11	0.020	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Calcium	**72000**	**B**	56	9.5	mg/Kg	☼	07/19/21 09:04	07/22/21 12:49	5
Chromium	**17**		0.56	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Cobalt	**11**		0.28	0.074	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Copper	**22**		0.56	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Iron	**18000**		11	5.8	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Lead	**12**		0.28	0.13	mg/Kg	☼	07/19/21 09:04	07/22/21 12:46	1
Magnesium	**24000**	**B**	5.6	2.8	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Manganese	**310**	**B**	0.56	0.081	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Nickel	**29**		0.56	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Potassium	**3600**		28	9.9	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Sodium	**1000**		56	8.3	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Vanadium	**23**		0.28	0.066	mg/Kg	☼	07/19/21 09:04	07/22/21 03:19	1
Zinc	**51**		1.1	0.49	mg/Kg	☼	07/19/21 09:04	07/22/21 12:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		07/15/21 18:53	07/19/21 21:18	1

Client Sample ID: 3036-1-B07-1

Date Collected: 07/07/21 12:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-10

Matrix: Solid
Percent Solids: 88.0

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		07/15/21 16:45	07/19/21 18:42	1
Barium	**0.069**	**J**	0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:42	1
Boron	**0.073**	**J**	0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:42	1
Calcium	**16**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:42	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:42	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:42	1
Iron	**5.7**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:42	1
Manganese	**0.051**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:42	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:42	1
Potassium	**4.9**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:42	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:42	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:42	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 18:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.016	0.0054	mg/Kg	☼	07/19/21 14:35	07/20/21 07:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	☼	07/16/21 12:28	07/16/21 16:34	1
pH	**8.2**		0.2	0.2	SU			07/13/21 19:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-2
Date Collected: 07/07/21 12:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-11
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Trichloroethene	**0.00078**	**J**	0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*07/08/21 19:50*	*07/14/21 15:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*07/08/21 19:50*	*07/14/21 15:27*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*07/08/21 19:50*	*07/14/21 15:27*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*07/08/21 19:50*	*07/14/21 15:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-2
Date Collected: 07/07/21 12:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-11
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Chrysene	**0.024**	**J**	0.038	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-2
Date Collected: 07/07/21 12:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-11
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Phenanthrene	**0.020**	**J**	0.038	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1
Pyrene	**0.015**	**J**	0.038	0.0076	mg/Kg	☼	07/15/21 07:42	07/16/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*54*		*31 - 143*	*07/15/21 07:42*	*07/16/21 16:38*	*1*
2-Fluorobiphenyl	*85*		*43 - 145*	*07/15/21 07:42*	*07/16/21 16:38*	*1*
2-Fluorophenol	*97*		*31 - 166*	*07/15/21 07:42*	*07/16/21 16:38*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*07/15/21 07:42*	*07/16/21 16:38*	*1*
Phenol-d5	*102*		*30 - 153*	*07/15/21 07:42*	*07/16/21 16:38*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*07/15/21 07:42*	*07/16/21 16:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.38**	**J**	1.1	0.21	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Arsenic	**7.4**		0.54	0.19	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Barium	**20**		0.54	0.062	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Beryllium	**0.57**		0.22	0.051	mg/Kg	☼	07/19/21 09:04	07/22/21 12:53	1
Boron	**13**		2.7	0.25	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Cadmium	**0.12**	**B**	0.11	0.020	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Calcium	**100000**	**B**	54	9.2	mg/Kg	☼	07/19/21 09:04	07/22/21 12:56	5
Chromium	**9.8**		0.54	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Cobalt	**9.6**		0.27	0.071	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Copper	**24**		0.54	0.15	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Iron	**22000**		54	28	mg/Kg	☼	07/19/21 09:04	07/22/21 12:56	5
Lead	**12**		0.27	0.13	mg/Kg	☼	07/19/21 09:04	07/22/21 12:53	1
Magnesium	**61000**	**B**	27	13	mg/Kg	☼	07/19/21 09:04	07/22/21 12:56	5
Manganese	**490**	**B**	0.54	0.079	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Nickel	**22**		0.54	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Potassium	**2100**		27	9.6	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Sodium	**240**		54	8.0	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Vanadium	**14**		0.27	0.064	mg/Kg	☼	07/19/21 09:04	07/22/21 03:22	1
Zinc	**40**		1.1	0.48	mg/Kg	☼	07/19/21 09:04	07/22/21 12:53	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		07/15/21 16:45	07/19/21 18:45	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:45	1
Boron	<0.10		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:45	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-2
Date Collected: 07/07/21 12:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-11
Matrix: Solid
Percent Solids: 84.8

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		07/15/21 16:45	07/19/21 18:45	1
Calcium	**14**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:45	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:45	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:45	1
Iron	**0.94**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:45	1
Manganese	**0.018**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:45	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:45	1
Potassium	**1.8**	**J**	2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:45	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:45	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:45	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 18:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:05	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		07/16/21 10:10	07/19/21 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.017	0.0057	mg/Kg	☼	07/19/21 14:35	07/20/21 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26	F1 F2	0.26	0.13	mg/Kg	☼	07/16/21 12:28	07/16/21 16:36	1
pH	**8.1**		0.2	0.2	SU			07/13/21 19:41	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-2 Dup

Date Collected: 07/07/21 12:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-12

Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Acetone	**0.0076**	**J**	0.017	0.0075	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*07/08/21 19:50*	*07/14/21 15:52*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*	*07/08/21 19:50*	*07/14/21 15:52*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*07/08/21 19:50*	*07/14/21 15:52*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/14/21 15:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-2 Dup
Date Collected: 07/07/21 12:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-12
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1

Client Sample ID: 3036-1-B07-2 Dup

Date Collected: 07/07/21 12:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-12

Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Phenanthrene	**0.012**	**J**	0.039	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1
Pyrene	**0.0083**	**J**	0.039	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*31 - 143*	*07/15/21 07:42*	*07/16/21 17:00*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*07/15/21 07:42*	*07/16/21 17:00*	*1*
2-Fluorophenol	*108*		*31 - 166*	*07/15/21 07:42*	*07/16/21 17:00*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*07/15/21 07:42*	*07/16/21 17:00*	*1*
Phenol-d5	*99*		*30 - 153*	*07/15/21 07:42*	*07/16/21 17:00*	*1*
Terphenyl-d14 (Surr)	*92*		*42 - 157*	*07/15/21 07:42*	*07/16/21 17:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Arsenic	**8.7**		0.57	0.20	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Barium	**15**		0.57	0.065	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Beryllium	**0.49**		0.23	0.053	mg/Kg	☼	07/19/21 09:04	07/22/21 12:59	1
Boron	**8.8**		2.9	0.27	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Cadmium	**0.097**	**J B**	0.11	0.021	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Calcium	**82000**	**B**	57	9.7	mg/Kg	☼	07/19/21 09:04	07/22/21 13:02	5
Chromium	**8.3**		0.57	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Cobalt	**10**		0.29	0.075	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Copper	**26**		0.57	0.16	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Iron	**20000**		57	30	mg/Kg	☼	07/19/21 09:04	07/22/21 13:02	5
Lead	**13**		0.29	0.13	mg/Kg	☼	07/19/21 09:04	07/22/21 12:59	1
Magnesium	**49000**	**B**	29	14	mg/Kg	☼	07/19/21 09:04	07/22/21 13:02	5
Manganese	**480**	**B**	0.57	0.083	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Nickel	**23**		0.57	0.17	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Potassium	**1300**		29	10	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Sodium	**160**		57	8.5	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Vanadium	**12**		0.29	0.067	mg/Kg	☼	07/19/21 09:04	07/22/21 03:27	1
Zinc	**36**		1.1	0.50	mg/Kg	☼	07/19/21 09:04	07/22/21 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 16:45	07/19/21 18:48	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:48	1
Boron	**0.053**	**J**	0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Client Sample ID: 3036-1-B07-2 Dup
Date Collected: 07/07/21 12:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202027-12
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:48	1
Calcium	**15**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:48	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:48	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:48	1
Iron	**1.3**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:48	1
Manganese	**0.024**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:48	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:48	1
Potassium	**1.9**	**J**	2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:48	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:48	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:48	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 18:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:09	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		07/16/21 10:10	07/19/21 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.019	0.0065	mg/Kg	☼	07/19/21 14:35	07/20/21 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:06	1
pH	**8.4**		0.2	0.2	SU			07/13/21 19:43	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202027-1

Qualifiers

GC/MS 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.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - AE7-046

Job ID: 500-202027-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

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 - 046A 500-202027 COC Project No PTB/WO: 184-006/646 TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** Prince Omare

COC No 1 of 1

Lab Job No 500 - 202027

Sample Temp X

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

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	3036-1-B01	7/7/21	14:10	S	X	X					X	X	X	X	X					
2	3036-1-B02	7/7/21	14:00	S	X	X					X	X	X	X	X					
3	3036-1-B03	7/7/21	~~13:50~~ 13:50	S	X	X					X	X	X	X	X					
4	3036-1-B04	7/7/21	13:40	S	↓	↓					↓	↓	↓	↓	↓					
5	3036-1-B05-1	7/7/21	~~13:00~~ 13:10	S																
6	3036-1-B05-2	7/7/21	13:20	S																
7	3036-1-B05-3	7/7/21	13:30	S																
8	3036-1-B06-1	7/7/21	12:50	S																
9	3036-1-B06-2	7/7/21	13:00	S																
10	3036-1-B07-1	7/7/21	12:20	S																
11	3036-1-B07-2	7/7/21	12:30	S																
12	3036-1-B07-2 DUP	7/7/21	12:~~00~~	S	X	X					X	X	X	X	X					

Relinquished by	Date/Time 7/8/21 943	Received by	Date/Time 7/8/21 0745
Relinquished by	Date/Time 7/8/21 1057	Received by	Date/Time 7/8/21 1057
Relinquished by	Date/Time	Received by	Date/Time

* (4.7 → 4.3) (5.3 → 4.9)

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1000 block of East Northwest Highway (west corner of Northwest Highway and Union Pacific Railroad)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04733 (Decimal Degrees) Longitude: -87.89867 (-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.): 58

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.

Project Name: FAU 3512 (US 14) Latitude: 42.04733 Longitude: - 87.89867

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 3036-4-B02 WAS SAMPLED ADJACENT TO SITE 3036V-4. SEE TABLE 3b AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-202100-1.

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:

Sep 3, 2021
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 3036V-4
Utility Corridor

Sample ID	3036-4-B02-1	3036-4-B02-2	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-5	5-10					
Sample Date	7/8/2021	7/8/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	8.2	8.2					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202100-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/23/2021 3:02:42 PM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 3036-4-B02-1
Date Collected: 07/08/21 08:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-2
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	☼	07/09/21 19:11	07/15/21 18:33	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Chloroethane	<0.0040	*+	0.0040	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Trichloroethene	**0.00061**	**J**	0.0016	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*07/09/21 19:11*	*07/15/21 18:33*	*1*
4-Bromofluorobenzene (Surr)	*102*	*3*	*75 - 131*	*07/09/21 19:11*	*07/15/21 18:33*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*07/09/21 19:11*	*07/15/21 18:33*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*07/09/21 19:11*	*07/15/21 18:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1

Client Sample ID: 3036-4-B02-1
Date Collected: 07/08/21 08:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-2
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	<0.38		0.38	0.087	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2-Methylnaphthalene	**0.064**	**J**	0.076	0.0070	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0073	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0082	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Benzo[g,h,i]perylene	**0.014**	**J *3**	0.038	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Chrysene	**0.024**	**J**	0.038	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0073	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1

Client Sample ID: 3036-4-B02-1
Date Collected: 07/08/21 08:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-2
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	<0.038	*3	0.038	0.0098	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Naphthalene	**0.015**	**J**	0.038	0.0058	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Phenanthrene	**0.049**		0.038	0.0053	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1
Pyrene	**0.027**	**J**	0.038	0.0075	mg/Kg	☼	07/19/21 20:19	07/20/21 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*48*		*31 - 143*	*07/19/21 20:19*	*07/20/21 18:51*	*1*
2-Fluorobiphenyl	*91*		*43 - 145*	*07/19/21 20:19*	*07/20/21 18:51*	*1*
2-Fluorophenol	*94*		*31 - 166*	*07/19/21 20:19*	*07/20/21 18:51*	*1*
Nitrobenzene-d5 (Surr)	*75*		*37 - 147*	*07/19/21 20:19*	*07/20/21 18:51*	*1*
Phenol-d5	*89*		*30 - 153*	*07/19/21 20:19*	*07/20/21 18:51*	*1*
Terphenyl-d14 (Surr)	*108*		*42 - 157*	*07/19/21 20:19*	*07/20/21 18:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.81**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Arsenic	**8.4**		0.56	0.19	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Barium	**31**		0.56	0.064	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Beryllium	**0.79**		0.22	0.052	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Boron	**14**		2.8	0.26	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Cadmium	**0.082**	**J**	0.11	0.020	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Calcium	**75000**	**B**	56	9.5	mg/Kg	☼	07/20/21 08:38	07/22/21 18:54	5
Chromium	**14**		0.56	0.28	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Cobalt	**14**		0.28	0.074	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Copper	**28**		0.56	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Iron	**18000**		11	5.8	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Lead	**15**		0.28	0.13	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Magnesium	**30000**		5.6	2.8	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Manganese	**400**		0.56	0.081	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Nickel	**31**		0.56	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Potassium	**2800**		28	9.9	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Silver	**0.24**	**J**	0.28	0.072	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Sodium	**310**		56	8.3	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Thallium	**1.3**		0.56	0.28	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Vanadium	**18**		0.28	0.066	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1
Zinc	**55**		1.1	0.49	mg/Kg	☼	07/20/21 08:38	07/22/21 00:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/19/21 18:18	07/20/21 16:22	1
Barium	**0.057**	**J**	0.50	0.050	mg/L		07/19/21 18:18	07/20/21 16:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 16:22	1
Boron	**0.31**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 16:22	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202100-1

Client Sample ID: 3036-4-B02-1
Date Collected: 07/08/21 08:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-2
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/19/21 18:18	07/20/21 16:22	1
Calcium	**23**		2.5	0.50	mg/L		07/19/21 18:18	07/23/21 03:27	1
Chromium	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:22	1
Cobalt	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:22	1
Iron	**0.35**	**J**	0.40	0.20	mg/L		07/19/21 18:18	07/20/21 16:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 16:22	1
Manganese	**0.047**		0.025	0.010	mg/L		07/19/21 18:18	07/23/21 03:27	1
Nickel	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:22	1
Potassium	**2.1**	**J**	2.5	0.50	mg/L		07/19/21 18:18	07/20/21 16:22	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 16:22	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:22	1
Zinc	**0.026**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 20:09	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		07/20/21 09:55	07/21/21 09:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.018	0.0059	mg/Kg	☼	07/19/21 14:35	07/20/21 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	☼	07/22/21 11:34	07/22/21 14:33	1
pH	**8.2**		0.2	0.2	SU			07/14/21 20:40	1

Client Sample ID: 3036-4-B02-2
Date Collected: 07/08/21 08:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-3
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00046	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00062	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
1,1-Dichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
1,1-Dichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00051	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0011	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Acetone	<0.015		0.015	0.0063	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Benzene	<0.0015		0.0015	0.00037	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Bromoform	<0.0015		0.0015	0.00042	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Carbon disulfide	<0.0036		0.0036	0.00076	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Carbon tetrachloride	<0.0015		0.0015	0.00042	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Chlorobenzene	<0.0015		0.0015	0.00054	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Chloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Chloroform	<0.0015		0.0015	0.00050	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Chloromethane	<0.0036		0.0036	0.0015	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00041	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00044	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Dibromochloromethane	<0.0015		0.0015	0.00048	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Ethylbenzene	<0.0015		0.0015	0.00070	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00043	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Styrene	<0.0015		0.0015	0.00044	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Tetrachloroethene	<0.0015		0.0015	0.00049	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Toluene	<0.0015		0.0015	0.00037	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00064	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00051	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Trichloroethene	**0.0011**	**J**	0.0015	0.00049	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Vinyl chloride	<0.0015		0.0015	0.00064	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1
Xylenes, Total	<0.0029		0.0029	0.00046	mg/Kg	☼	07/09/21 19:11	07/18/21 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*07/09/21 19:11*	*07/18/21 22:23*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*07/09/21 19:11*	*07/18/21 22:23*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*07/09/21 19:11*	*07/18/21 22:23*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/09/21 19:11*	*07/18/21 22:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1

Client Sample ID: 3036-4-B02-2
Date Collected: 07/08/21 08:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-3
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2-Methylnaphthalene	**0.24**		0.075	0.0069	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0081	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Benzo[g,h,i]perylene	**0.013**	**J *3**	0.037	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Chrysene	**0.028**	**J**	0.037	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202100-1

Client Sample ID: 3036-4-B02-2
Date Collected: 07/08/21 08:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-3
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0097	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Naphthalene	**0.054**		0.037	0.0057	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
N-Nitrosodiphenylamine	**0.053**	**J**	0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Phenanthrene	**0.12**		0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1
Pyrene	**0.026**	**J**	0.037	0.0074	mg/Kg	☼	07/19/21 20:19	07/20/21 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*44*		*31 - 143*	*07/19/21 20:19*	*07/20/21 19:13*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*07/19/21 20:19*	*07/20/21 19:13*	*1*
2-Fluorophenol	*92*		*31 - 166*	*07/19/21 20:19*	*07/20/21 19:13*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*07/19/21 20:19*	*07/20/21 19:13*	*1*
Phenol-d5	*89*		*30 - 153*	*07/19/21 20:19*	*07/20/21 19:13*	*1*
Terphenyl-d14 (Surr)	*111*		*42 - 157*	*07/19/21 20:19*	*07/20/21 19:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.72**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Arsenic	**8.0**		0.56	0.19	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Barium	**20**		0.56	0.063	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Beryllium	**0.66**		0.22	0.052	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Boron	**12**		2.8	0.26	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Cadmium	**0.18**		0.11	0.020	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Calcium	**81000**	**B**	56	9.4	mg/Kg	☼	07/20/21 08:38	07/22/21 18:57	5
Chromium	**12**		0.56	0.28	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Cobalt	**11**		0.28	0.073	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Copper	**23**		0.56	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Iron	**17000**		11	5.8	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Magnesium	**31000**		5.6	2.8	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Manganese	**430**		0.56	0.081	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Nickel	**27**		0.56	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Potassium	**2400**		28	9.9	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Selenium	**0.39**	**J**	0.56	0.33	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Silver	**0.17**	**J**	0.28	0.072	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Sodium	**180**		56	8.2	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Thallium	**1.0**		0.56	0.28	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Vanadium	**15**		0.28	0.066	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1
Zinc	**84**		1.1	0.49	mg/Kg	☼	07/20/21 08:38	07/22/21 00:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/19/21 18:18	07/20/21 16:25	1
Barium	<0.50		0.50	0.050	mg/L		07/19/21 18:18	07/20/21 16:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 16:25	1
Boron	**0.18**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 16:25	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202100-1

Client Sample ID: 3036-4-B02-2
Date Collected: 07/08/21 08:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-3
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/19/21 18:18	07/20/21 16:25	1
Calcium	**17**		2.5	0.50	mg/L		07/19/21 18:18	07/23/21 03:30	1
Chromium	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:25	1
Cobalt	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:25	1
Iron	**2.3**		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 16:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 16:25	1
Manganese	**0.050**		0.025	0.010	mg/L		07/19/21 18:18	07/23/21 03:30	1
Nickel	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:25	1
Potassium	**3.2**		2.5	0.50	mg/L		07/19/21 18:18	07/20/21 16:25	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 16:25	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:25	1
Zinc	**0.040**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 16:25	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		07/19/21 18:18	07/21/21 20:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 20:11	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		07/20/21 09:55	07/21/21 09:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.018	0.0060	mg/Kg	☼	07/19/21 14:35	07/20/21 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/22/21 11:34	07/22/21 14:35	1
pH	**8.2**		0.2	0.2	SU			07/14/21 20:42	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202100-1

Qualifiers

GC/MS 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.

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.

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202100-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

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 - 046A — 500-202100 COC

Project No PTB/WO: 184-006/046

TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other

Sampler: PLG, SLC, SM / SR

COC No 1 of 1

Lab Job No 2.6-2.2, 38-3.4

Sample Temp 500-202100

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

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	3036-4-B01	7/8/21	8:30	S	X	X					X	X	X	X	X					
2	3036-4-B02-1	7/8/21	8:40	S	X	X					X	X	X	X	X					
3	3036-4-B02-2	7/8/21	8:50	S	X	X					X	X	X	X	X					
4	Trip Blank #2	7/8/21		S	X															

Relinquished by		Date/Time 7/9/21	Received by	Date/Time 7/9/21 0930
Relinquished by		Date/Time 7/9/21 1040	Received by Stephanie Hernandez ETA-CHI	Date/Time 7/9/21 1040
Relinquished by		Date/Time	Received by	Date/Time

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1000 block of East Northwest Highway (west quadrant of Northwest Highway and Union Pacific Railroad)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04746 (Decimal Degrees) Longitude: -87.89941 (-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.): 170

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.

Project Name: FAU 3512 (US 14) Latitude: 42.04746 Longitude: - 87.89941

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 3036-4-B01 WAS SAMPLED ADJACENT TO SITE 3036V-5. SEE TABLE 3c AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-202100-1.

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:

Sep 3, 2021
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 3036V-5
IDOT pump station

Sample ID	3036-4-B01	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7					
Sample Date	7/8/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.6					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202100-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/23/2021 3:02:42 PM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 3036-4-B01
Date Collected: 07/08/21 08:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-1
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	**0.00081**	**J**	0.0016	0.00055	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
1,1-Dichloroethane	**0.0030**		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Trichloroethene	**0.0012**	**J**	0.0016	0.00055	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	07/09/21 19:11	07/18/21 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*07/09/21 19:11*	*07/18/21 21:58*	*1*
4-Bromofluorobenzene (Surr)	*89*		*75 - 131*	*07/09/21 19:11*	*07/18/21 21:58*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*07/09/21 19:11*	*07/18/21 21:58*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/09/21 19:11*	*07/18/21 21:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1

Client Sample ID: 3036-4-B01
Date Collected: 07/08/21 08:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-1
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	<0.38		0.38	0.088	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Benzo[a]anthracene	**0.0070**	**J**	0.038	0.0052	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Benzo[a]pyrene	**0.011**	**J**	0.038	0.0075	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Benzo[b]fluoranthene	**0.014**	**J**	0.038	0.0083	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Benzo[g,h,i]perylene	**0.025**	**J**	0.038	0.012	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Chrysene	**0.019**	**J**	0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1

Client Sample ID: 3036-4-B01
Date Collected: 07/08/21 08:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-1
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	<0.038		0.038	0.010	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Phenanthrene	**0.023**	**J**	0.038	0.0054	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1
Pyrene	**0.022**	**J**	0.038	0.0077	mg/Kg	☼	07/19/21 20:19	07/21/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*61*		*31 - 143*	*07/19/21 20:19*	*07/21/21 15:55*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*07/19/21 20:19*	*07/21/21 15:55*	*1*
2-Fluorophenol	*86*		*31 - 166*	*07/19/21 20:19*	*07/21/21 15:55*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*07/19/21 20:19*	*07/21/21 15:55*	*1*
Phenol-d5	*79*		*30 - 153*	*07/19/21 20:19*	*07/21/21 15:55*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*07/19/21 20:19*	*07/21/21 15:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.81**	**J**	1.2	0.23	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Arsenic	**8.5**		0.58	0.20	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Barium	**130**		0.58	0.067	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Beryllium	**0.96**		0.23	0.054	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Boron	**15**		2.9	0.27	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Cadmium	**0.032**	**J**	0.12	0.021	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Calcium	**65000**	**B**	58	9.9	mg/Kg	☼	07/20/21 08:38	07/22/21 18:50	5
Chromium	**18**		0.58	0.29	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Cobalt	**14**		0.29	0.076	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Copper	**23**		0.58	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Iron	**20000**		12	6.1	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Lead	**13**		0.29	0.13	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Magnesium	**26000**		5.8	2.9	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Manganese	**340**		0.58	0.085	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Nickel	**34**		0.58	0.17	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Potassium	**3200**		29	10	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Silver	**0.25**	**J**	0.29	0.075	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Sodium	**670**		58	8.6	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Thallium	**1.2**		0.58	0.29	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Vanadium	**22**		0.29	0.069	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1
Zinc	**60**		1.2	0.51	mg/Kg	☼	07/20/21 08:38	07/22/21 00:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/19/21 18:15	07/22/21 18:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:15	07/20/21 16:18	1
Manganese	**2.2**		0.025	0.010	mg/L		07/19/21 18:15	07/22/21 18:39	1
Nickel	<0.025		0.025	0.010	mg/L		07/19/21 18:15	07/20/21 16:18	1

Client Sample ID: 3036-4-B01

Date Collected: 07/08/21 08:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202100-1

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**	**J**	0.050	0.010	mg/L		07/19/21 18:18	07/20/21 16:19	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		07/19/21 18:18	07/20/21 16:19	1
Beryllium	**0.0040**		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 16:19	1
Boron	**0.23**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 16:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/19/21 18:18	07/20/21 16:19	1
Calcium	**42**		2.5	0.50	mg/L		07/19/21 18:18	07/23/21 03:24	1
Chromium	**0.088**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:19	1
Cobalt	**0.038**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:19	1
Iron	**68**		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 16:19	1
Lead	**0.044**		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 16:19	1
Manganese	**0.57**		0.025	0.010	mg/L		07/19/21 18:18	07/23/21 03:24	1
Nickel	**0.11**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:19	1
Potassium	**26**		2.5	0.50	mg/L		07/19/21 18:18	07/20/21 16:19	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 16:19	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:19	1
Zinc	**0.25**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 20:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/20/21 09:55	07/21/21 09:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0079**	**J**	0.019	0.0062	mg/Kg	☼	07/19/21 14:35	07/20/21 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/22/21 11:34	07/22/21 14:28	1
pH	**8.6**		0.2	0.2	SU			07/14/21 20:37	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202100-1

Qualifiers

GC/MS 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.

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.

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202100-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

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 - 046A — 500-202100 COC

Project No PTB/WO: 184-006/046

TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other

Sampler: PLG, SLC, SM / SR

COC No 1 of 1

Lab Job No 2.6-2.2, 38-3.4

Sample Temp 500-202100

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

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	3036-4-B01	7/8/21	8:30	S	X	X					X	X	X	X	X					
2	3036-4-B02-1	7/8/21	8:40	S	X	X					X	X	X	X	X					
3	3036-4-B02-2	7/8/21	8:50	S	X	X					X	X	X	X	X					
4	Trip Blank #2	7/8/21		S	X															

Relinquished by		Date/Time 7/9/21	Received by	Date/Time 7/9/21 0930
Relinquished by		Date/Time 7/9/21 1040	Received by Stephanie Hernandez ETA-CHI	Date/Time 7/9/21 1040
Relinquished by		Date/Time	Received by	Date/Time

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1000 block of E. Northwest Highway (NE and SW sides of Northwest Highway at the intersection of the Canadian National RR)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04702 (Decimal Degrees) Longitude: -87.89772 (-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.): 129

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.

Project Name: FAU 3512 (US 14) Latitude: 42.04702 Longitude: - 87.89772

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 3036-5-B01 WAS SAMPLED ADJACENT TO SITE 3036V-6. SEE TABLE 3d AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-202101-1.

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:

Sep 3, 2021
Date:

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

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 3036V-6
Union Pacific Railroad

Sample ID	3036-5-B01-1	3036-5-B01-2	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-5	5-10					
Sample Date	7/8/2021	7/8/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	8.3	8.2					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202101-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/23/2021 4:50:04 PM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 3036-5-B01-1

Date Collected: 07/08/21 09:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202101-1

Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Acetone	**0.020**		0.017	0.0074	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Chloroethane	<0.0043	*+	0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Trichloroethene	**0.00059**	**J**	0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*07/09/21 19:11*	*07/15/21 19:48*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*07/09/21 19:11*	*07/15/21 19:48*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*07/09/21 19:11*	*07/15/21 19:48*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*07/09/21 19:11*	*07/15/21 19:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202101-1

Client Sample ID: 3036-5-B01-1
Date Collected: 07/08/21 09:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202101-1
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1

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Lab Sample ID: 500-202101-1
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Phenanthrene	**0.0070**	**J**	0.038	0.0054	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1
Pyrene	**0.0084**	**J**	0.038	0.0077	mg/Kg	☼	07/19/21 17:06	07/20/21 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*31 - 143*	*07/19/21 17:06*	*07/20/21 12:03*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*07/19/21 17:06*	*07/20/21 12:03*	*1*
2-Fluorophenol	*79*		*31 - 166*	*07/19/21 17:06*	*07/20/21 12:03*	*1*
Nitrobenzene-d5 (Surr)	*82*		*37 - 147*	*07/19/21 17:06*	*07/20/21 12:03*	*1*
Phenol-d5	*75*		*30 - 153*	*07/19/21 17:06*	*07/20/21 12:03*	*1*
Terphenyl-d14 (Surr)	*88*		*42 - 157*	*07/19/21 17:06*	*07/20/21 12:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.68**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Arsenic	**8.5**		0.56	0.19	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Barium	**26**		0.56	0.064	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Beryllium	**0.55**		0.23	0.053	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Boron	**9.6**		2.8	0.26	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Cadmium	**0.073**	**J**	0.11	0.020	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Calcium	**84000**	**B**	56	9.5	mg/Kg	☼	07/20/21 08:38	07/22/21 19:12	5
Chromium	**9.7**		0.56	0.28	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Cobalt	**10**		0.28	0.074	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Copper	**23**		0.56	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Iron	**18000**		56	29	mg/Kg	☼	07/20/21 08:38	07/22/21 19:12	5
Lead	**12**		0.28	0.13	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Magnesium	**45000**		28	14	mg/Kg	☼	07/20/21 08:38	07/22/21 19:12	5
Manganese	**530**		0.56	0.082	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Nickel	**23**		0.56	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Potassium	**1700**		28	10	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Silver	**0.17**	**J**	0.28	0.073	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Sodium	**160**		56	8.3	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Thallium	**1.0**		0.56	0.28	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Vanadium	**13**		0.28	0.066	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	1
Zinc	**42**		1.1	0.49	mg/Kg	☼	07/20/21 08:38	07/22/21 00:11	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		07/19/21 18:18	07/20/21 16:29	1
Barium	**0.054**	**J**	0.50	0.050	mg/L		07/19/21 18:18	07/20/21 16:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 16:29	1
Boron	**0.29**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 16:29	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202101-1

Client Sample ID: 3036-5-B01-1
Date Collected: 07/08/21 09:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202101-1
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/19/21 18:18	07/20/21 16:29	1
Calcium	**26**		2.5	0.50	mg/L		07/19/21 18:18	07/23/21 03:33	1
Chromium	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:29	1
Cobalt	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:29	1
Iron	<0.40		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 16:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 16:29	1
Manganese	**0.077**		0.025	0.010	mg/L		07/19/21 18:18	07/23/21 03:33	1
Nickel	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:29	1
Potassium	**1.2**	**J**	2.5	0.50	mg/L		07/19/21 18:18	07/20/21 16:29	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 16:29	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:29	1
Zinc	<0.50		0.50	0.020	mg/L		07/19/21 18:18	07/20/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 20:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 20:13	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		07/20/21 09:55	07/21/21 09:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.017	0.0056	mg/Kg	☼	07/19/21 14:35	07/20/21 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/22/21 11:34	07/22/21 14:36	1
pH	**8.3**		0.2	0.2	SU			07/13/21 21:15	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202101-1

Client Sample ID: 3036-5-B01-2

Date Collected: 07/08/21 09:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202101-2

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00053	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Chloroethane	<0.0042	*+	0.0042	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1
Xylenes, Total	<0.0033		0.0033	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*07/09/21 19:11*	*07/15/21 20:13*	*1*
4-Bromofluorobenzene (Surr)	*119*	*3*	*75 - 131*	*07/09/21 19:11*	*07/15/21 20:13*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*07/09/21 19:11*	*07/15/21 20:13*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*07/09/21 19:11*	*07/15/21 20:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1

Client Sample ID: 3036-5-B01-2
Date Collected: 07/08/21 09:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202101-2
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Chrysene	**0.014**	**J**	0.039	0.011	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202101-1

Client Sample ID: 3036-5-B01-2
Date Collected: 07/08/21 09:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202101-2
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Phenanthrene	**0.011**	**J**	0.039	0.0055	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1
Pyrene	**0.0093**	**J**	0.039	0.0078	mg/Kg	☼	07/19/21 17:06	07/20/21 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*31 - 143*	*07/19/21 17:06*	*07/20/21 12:27*	*1*
2-Fluorobiphenyl	*90*		*43 - 145*	*07/19/21 17:06*	*07/20/21 12:27*	*1*
2-Fluorophenol	*81*		*31 - 166*	*07/19/21 17:06*	*07/20/21 12:27*	*1*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*07/19/21 17:06*	*07/20/21 12:27*	*1*
Phenol-d5	*84*		*30 - 153*	*07/19/21 17:06*	*07/20/21 12:27*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*07/19/21 17:06*	*07/20/21 12:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.67**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Arsenic	**9.6**		0.56	0.19	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Barium	**14**		0.56	0.063	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Beryllium	**0.49**		0.22	0.052	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Boron	**8.5**		2.8	0.26	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Cadmium	**0.14**		0.11	0.020	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Calcium	**85000**	**B**	56	9.4	mg/Kg	☼	07/20/21 08:38	07/22/21 18:47	5
Chromium	**7.9**		0.56	0.28	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Cobalt	**9.9**		0.28	0.073	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Copper	**29**		0.56	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Iron	**19000**		56	29	mg/Kg	☼	07/20/21 08:38	07/22/21 18:47	5
Lead	**14**		0.28	0.13	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Magnesium	**46000**		28	14	mg/Kg	☼	07/20/21 08:38	07/22/21 18:47	5
Manganese	**530**		0.56	0.081	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Nickel	**23**		0.56	0.16	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Potassium	**1400**		28	9.9	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Silver	**0.16**	**J**	0.28	0.072	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Sodium	**140**		56	8.2	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Thallium	**1.1**		0.56	0.28	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Vanadium	**11**		0.28	0.066	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	1
Zinc	**53**		1.1	0.49	mg/Kg	☼	07/20/21 08:38	07/22/21 00:14	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		07/19/21 18:18	07/20/21 16:32	1
Barium	<0.50		0.50	0.050	mg/L		07/19/21 18:18	07/20/21 16:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 16:32	1
Boron	**0.081**	**J**	0.10	0.050	mg/L		07/19/21 18:18	07/20/21 16:32	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202101-1

Client Sample ID: 3036-5-B01-2
Date Collected: 07/08/21 09:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202101-2
Matrix: Solid
Percent Solids: 84.6

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		07/19/21 18:18	07/20/21 16:32	1
Calcium	**18**		2.5	0.50	mg/L		07/19/21 18:18	07/23/21 03:37	1
Chromium	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:32	1
Cobalt	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:32	1
Iron	<0.40		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 16:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 16:32	1
Manganese	**0.021**	**J**	0.025	0.010	mg/L		07/19/21 18:18	07/23/21 03:37	1
Nickel	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:32	1
Potassium	**1.0**	**J**	2.5	0.50	mg/L		07/19/21 18:18	07/20/21 16:32	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 16:32	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:32	1
Zinc	**0.030**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/20/21 09:55	07/21/21 09:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.019	0.0062	mg/Kg	☼	07/19/21 14:35	07/20/21 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/22/21 11:34	07/22/21 14:38	1
pH	**8.2**		0.2	0.2	SU			07/14/21 18:34	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202101-1

Qualifiers

GC/MS 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.

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202101-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

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 - 046A 500-202101 COC

Project No PTB/WO: 184-006/046

TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other

Sampler: PKO, SLC, SM, SR

COC No 1 of 1

Lab Job No 2.6+2.2, 3.8+3.4

Sample Temp 500-202101

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	3036-5-B01-1	7/7/24	~~11:45~~ 9:00	S	X	X					X	X	X	X	X					
2	3036-5-B01-2	7/7/24	~~11:55~~ 9:10	S	X	X					X	X	X	X	X					

Relinquished by	Date/Time	Received by	Date/Time
	7/9/24	R Veal	7/9/24 0950
R Veal	7/9/24 1040	Stephanie Hernandez ETA-CHI	7/9/24 1040

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
865 East Northwest Highway (northwest corner of Northwest Highway and the Canadian National Railroad)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04738 (Decimal Degrees) Longitude: -87.89812 (-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.): 1,612

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.

Project Name: FAU 3512 (US 14) Latitude: 42.04738 Longitude: - 87.89812

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 3036-7-B01 WAS SAMPLED ADJACENT TO SITE 3036V-8. SEE TABLE 3e AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-202031-1.

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:

Sep 3, 2021
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 3036V-8
IDOT Pump Station # 8

Sample ID	3036-7-B01-1	3036-7-B01-2	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-4.5	4.5-9					
Sample Date	7/7/2021	7/7/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	8	8.1					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202031-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/23/2021 3:00:21 PM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202031-1

Client Sample ID: 3036-7-B01-1
Date Collected: 07/07/21 12:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202031-1
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Acetone	**0.016**	**J**	0.018	0.0079	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/08/21 19:50*	*07/14/21 18:51*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*07/08/21 19:50*	*07/14/21 18:51*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*07/08/21 19:50*	*07/14/21 18:51*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/14/21 18:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1

Client Sample ID: 3036-7-B01-1
Date Collected: 07/07/21 12:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202031-1
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2-Methylnaphthalene	**0.0074**	**J**	0.076	0.0070	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Benzo[g,h,i]perylene	**0.013**	**J**	0.038	0.012	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Chrysene	**0.021**	**J**	0.038	0.010	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202031-1

Client Sample ID: 3036-7-B01-1
Date Collected: 07/07/21 12:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202031-1
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Phenanthrene	**0.012**	**J**	0.038	0.0053	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1
Pyrene	**0.016**	**J**	0.038	0.0075	mg/Kg	☼	07/15/21 19:42	07/16/21 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*31 - 143*	*07/15/21 19:42*	*07/16/21 16:44*	*1*
2-Fluorobiphenyl	*100*		*43 - 145*	*07/15/21 19:42*	*07/16/21 16:44*	*1*
2-Fluorophenol	*88*		*31 - 166*	*07/15/21 19:42*	*07/16/21 16:44*	*1*
Nitrobenzene-d5 (Surr)	*93*		*37 - 147*	*07/15/21 19:42*	*07/16/21 16:44*	*1*
Phenol-d5	*87*		*30 - 153*	*07/15/21 19:42*	*07/16/21 16:44*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*07/15/21 19:42*	*07/16/21 16:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.40**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Arsenic	**8.4**		0.55	0.19	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Barium	**23**		0.55	0.063	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Beryllium	**0.35**		0.22	0.052	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Boron	**10**	**B**	2.8	0.26	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Cadmium	**0.19**	**B**	0.11	0.020	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Calcium	**81000**	**B**	55	9.4	mg/Kg	☼	07/19/21 09:07	07/23/21 00:48	5
Chromium	**9.3**		0.55	0.27	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Cobalt	**11**		0.28	0.073	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Copper	**24**		0.55	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Iron	**16000**		55	29	mg/Kg	☼	07/19/21 09:07	07/23/21 00:48	5
Lead	**14**		0.28	0.13	mg/Kg	☼	07/19/21 09:07	07/23/21 00:45	1
Magnesium	**43000**		28	14	mg/Kg	☼	07/19/21 09:07	07/23/21 00:48	5
Manganese	**510**		0.55	0.080	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Nickel	**24**		0.55	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Potassium	**1600**		28	9.8	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Sodium	**180**	**B**	55	8.2	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Vanadium	**13**		0.28	0.065	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	1
Zinc	**48**		1.1	0.49	mg/Kg	☼	07/19/21 09:07	07/21/21 21:28	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		07/19/21 18:18	07/20/21 15:50	1
Barium	<0.50		0.50	0.050	mg/L		07/19/21 18:18	07/20/21 15:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 15:50	1
Boron	**0.24**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 15:50	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202031-1

Client Sample ID: 3036-7-B01-1
Date Collected: 07/07/21 12:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202031-1
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/19/21 18:18	07/20/21 15:50	1
Calcium	**22**		2.5	0.50	mg/L		07/19/21 18:18	07/22/21 14:21	1
Chromium	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 15:50	1
Cobalt	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 15:50	1
Iron	<0.40		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 15:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 15:50	1
Manganese	**0.15**	**B**	0.025	0.010	mg/L		07/19/21 18:18	07/22/21 14:21	1
Nickel	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 15:50	1
Potassium	**1.4**	**J**	2.5	0.50	mg/L		07/19/21 18:18	07/20/21 15:50	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 15:50	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 15:50	1
Zinc	**0.039**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 15:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 19:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 19:51	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		07/20/21 09:55	07/21/21 09:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.018	0.0059	mg/Kg	☼	07/19/21 14:35	07/20/21 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.14	mg/Kg	☼	07/21/21 16:01	07/21/21 19:18	1
pH	**8.0**		0.2	0.2	SU			07/13/21 18:54	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202031-1

Client Sample ID: 3036-7-B01-2
Date Collected: 07/07/21 12:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202031-2
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Acetone	**0.013**	**J**	0.017	0.0074	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*07/08/21 19:50*	*07/14/21 19:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*07/08/21 19:50*	*07/14/21 19:17*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*07/08/21 19:50*	*07/14/21 19:17*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*07/08/21 19:50*	*07/14/21 19:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1

Client Sample ID: 3036-7-B01-2
Date Collected: 07/07/21 12:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202031-2
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2-Methylnaphthalene	**0.031**	**J**	0.076	0.0070	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Acenaphthene	**0.016**	**J**	0.038	0.0068	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Chrysene	**0.017**	**J**	0.038	0.010	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202031-1

Client Sample ID: 3036-7-B01-2
Date Collected: 07/07/21 12:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202031-2
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Phenanthrene	**0.063**		0.038	0.0053	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1
Pyrene	**0.017**	**J**	0.038	0.0075	mg/Kg	☼	07/15/21 19:42	07/16/21 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*31 - 143*	*07/15/21 19:42*	*07/16/21 17:07*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*07/15/21 19:42*	*07/16/21 17:07*	*1*
2-Fluorophenol	*77*		*31 - 166*	*07/15/21 19:42*	*07/16/21 17:07*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*07/15/21 19:42*	*07/16/21 17:07*	*1*
Phenol-d5	*72*		*30 - 153*	*07/15/21 19:42*	*07/16/21 17:07*	*1*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*07/15/21 19:42*	*07/16/21 17:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.47**	**J**	1.2	0.23	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Arsenic	**7.3**		0.58	0.20	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Barium	**31**		0.58	0.066	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Beryllium	**0.44**		0.23	0.054	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Boron	**14**	**B**	2.9	0.27	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Cadmium	**0.12**	**B**	0.12	0.021	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Calcium	**74000**	**B**	58	9.8	mg/Kg	☼	07/19/21 09:07	07/23/21 00:55	5
Chromium	**13**		0.58	0.29	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Cobalt	**12**		0.29	0.076	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Copper	**26**		0.58	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Iron	**16000**		12	6.0	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Lead	**14**		0.29	0.13	mg/Kg	☼	07/19/21 09:07	07/23/21 00:52	1
Magnesium	**32000**		5.8	2.9	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Manganese	**390**		0.58	0.084	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Nickel	**29**		0.58	0.17	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Potassium	**2500**		29	10	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Selenium	**0.54**	**J B**	0.58	0.34	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Sodium	**190**	**B**	58	8.6	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Vanadium	**17**		0.29	0.068	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	1
Zinc	**44**		1.2	0.51	mg/Kg	☼	07/19/21 09:07	07/21/21 21:32	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		07/19/21 18:18	07/20/21 15:53	1
Barium	<0.50		0.50	0.050	mg/L		07/19/21 18:18	07/20/21 15:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 15:53	1
Boron	**0.27**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 15:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202031-1

Client Sample ID: 3036-7-B01-2
Date Collected: 07/07/21 12:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202031-2
Matrix: Solid
Percent Solids: 85.7

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		07/19/21 18:18	07/20/21 15:53	1
Calcium	**16**		2.5	0.50	mg/L		07/19/21 18:18	07/22/21 14:34	1
Chromium	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 15:53	1
Cobalt	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 15:53	1
Iron	**1.4**		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 15:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 15:53	1
Manganese	**0.042**	**B**	0.025	0.010	mg/L		07/19/21 18:18	07/22/21 14:34	1
Nickel	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 15:53	1
Potassium	**2.8**		2.5	0.50	mg/L		07/19/21 18:18	07/20/21 15:53	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 15:53	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 15:53	1
Zinc	**0.033**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 19:57	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		07/20/21 09:55	07/21/21 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.018	0.0060	mg/Kg	☼	07/19/21 14:35	07/20/21 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	☼	07/21/21 17:27	07/21/21 19:46	1
pH	**8.1**		0.2	0.2	SU			07/13/21 18:56	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202031-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-202031-1
Project/Site: IDOT - AE7-046

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

500 202031 COC

Client Contact

Andrews Engineering, Inc
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact Colleen Grey
email cgrey@andrews-eng com

ry

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 - 046A
Project No PTB / WO: 184-006 / 046
TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler: P. Omen

COC No 1 of 1
Lab Job No 500-202031
Sample Temp 5.3 → 4.9

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

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	3036-7-B01-1	7/7/24	12'00	S	X	X					X	X	X	X	X					
2	3036-7-B01-2	7/7/24	12'10	S	X	X					X	X	X	X	X					
											X	X								

Relinquished by		Date/Time 7/8/24 9:13am	Received by	Date/Time 7/8/24 0943
Relinquished by		Date/Time 7/8/24 1057	Received by	Date/Time 7/8/24 1057
Relinquished by		Date/Time	Received by	Date/Time

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1099-1101 East Northwest Highway (south quadrant of Northwest Highway and Canadian National Railroad)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04598 (Decimal Degrees) Longitude: -87.89683 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0310630042 BOW: BOA:

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

Estimated Volume of debris (cu. Yd.): 3,786

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.

Project Name: FAU 3512 (US 14) Latitude: 42.04598 Longitude: - 87.89683

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 3036-9-B01, 3036-9-B02, 3036-9-B03, 3036-9-B04, 3036-9-B05, 3036-9-B06 AND 3036-9-B08 WERE SAMPLED ADJACENT TO SITE 3036V-10. SEE TABLE 3f AND FIGURES 3 AND 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-202098-1 AND 500-202099-1.

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:

Sep 3, 2021
Date:

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

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 3036V-10
Railroad Staging Lot

Sample ID	3036-9-B01-1	3036-9-B01-2	3036-9-B01-2 DUP	3036-9-B01-3	3036-9-B02-1	Maximum Allowable Concentration				
Sample Depth (ft)	0-5	5-10	5-10	10-16	0-6					
Sample Date	7/8/2021	7/8/2021	7/8/2021	7/8/2021	7/8/2021					
PID	0	0	0	0	0					
Sample pH	8.6	8.2	8	8.1	8.4					
Matrix	Soil	Soil	Soil	Soil	Soil	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Inorganic Compounds, Total (mg/kg)										
Arsenic	**8.1**	**8**	**7.9**	**6.5**	**5.2**	11.3	--	11.3	--	13

Sample ID	3036-9-B02-2	3036-9-B02-3	3036-9-B03-1	3036-9-B03-2	3036-9-B03-3	Maximum Allowable Concentration				
Sample Depth (ft)	6-12	12-18	0-6	6-12	12-18					
Sample Date	7/8/2021	7/8/2021	7/8/2021	7/8/2021	7/8/2021					
PID	0	0	0	0	0					
Sample pH	8.3	8.2	8.2	8	8.1					
Matrix	Soil	Soil	Soil	Soil	Soil	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Inorganic Compounds, Total (mg/kg)										
Arsenic	**6.4**	**8.7**	**6.9**	**4.3**	**6.3**	11.3	--	11.3	--	13

Sample ID	3036-9-B04-1	3036-9-B04-2	3036-9-B04-2 DUP	3036-9-B04-3	3036-9-B05-1	Maximum Allowable Concentration				
Sample Depth (ft)	0-6.5	6.5-13	6.5-13	13-20	0-6.5					
Sample Date	7/8/2021	7/8/2021	7/8/2021	7/8/2021	7/8/2021					
PID	0	0	0	0	0					
Sample pH	8.3	8	8.3	7.9	8.9					
Matrix	Soil	Soil	Soil	Soil	Soil	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Inorganic Compounds, Total (mg/kg)										
Arsenic	**5**	**7.2**	**10**	**6.9**	**5.6**	11.3	--	11.3	--	13

Sample ID	3036-9-B05-2	3036-9-B05-3	3036-9-B06-1	3036-9-B06-2	3036-9-B08-1	Maximum Allowable Concentration				
Sample Depth (ft)	6.5-13	13-20	0-5	5-10	0-4.5					
Sample Date	7/8/2021	7/8/2021	7/8/2021	7/8/2021	7/8/2021					
PID	0	0	0	0	0					
Sample pH	8.1	7.9	9	8.2	8.1					
Matrix	Soil	Soil	Soil	Soil	Soil	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Inorganic Compounds, Total (mg/kg)										
Arsenic	**12** **1,3**	**6.8**	**8.1**	**10**	**4.4**	11.3	--	11.3	--	13

Sample ID	3036-9-B08-2	3036-9-B08-2 DUP	Maximum Allowable Concentration				
Sample Depth (ft)	4.5-9	4.5-9					
Sample Date	7/8/2021	7/8/2021					
PID	0	0					
Sample pH	8.8	8.7					
Matrix	Soil	Soil	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Inorganic Compounds, Total (mg/kg)							
Arsenic	**6.7**	**5.2**	11.3	--	11.3	--	13

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-202098-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/26/2021 9:01:16 AM

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

LINKS

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

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-1
Date Collected: 07/08/21 09:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-1
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Chloroethane	<0.0046	*-	0.0046	0.0013	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Chloromethane	<0.0046	*-	0.0046	0.0018	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Trichloroethene	**0.00068**	**J**	0.0018	0.00062	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	07/09/21 19:11	07/19/21 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*07/09/21 19:11*	*07/19/21 14:39*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*07/09/21 19:11*	*07/19/21 14:39*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*07/09/21 19:11*	*07/19/21 14:39*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/09/21 19:11*	*07/19/21 14:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-1
Date Collected: 07/08/21 09:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-1
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2,4-Dinitrophenol	<0.77	F1	0.77	0.67	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2-Methylnaphthalene	**0.025**	**J**	0.077	0.0070	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
4,6-Dinitro-2-methylphenol	<0.77	F1	0.77	0.31	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
4-Chloroaniline	<0.77	F1	0.77	0.18	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
4-Nitrophenol	<0.77	F1	0.77	0.36	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Benzo[a]anthracene	**0.0077**	**J**	0.038	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0074	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0083	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Benzo[g,h,i]perylene	<0.038	F1 *3	0.038	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.070	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Chrysene	**0.036**	**J**	0.038	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Dibenz(a,h)anthracene	<0.038	F1 *3	0.038	0.0074	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Hexachlorocyclopentadiene	<0.77	F1	0.77	0.22	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Hexachloroethane	<0.19	F1	0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-1
Date Collected: 07/08/21 09:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-1
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038	F1 *3	0.038	0.0099	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Pentachlorophenol	<0.77	F1	0.77	0.61	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Phenanthrene	**0.046**		0.038	0.0053	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1
Pyrene	**0.034**	**J**	0.038	0.0076	mg/Kg	☼	07/19/21 20:19	07/20/21 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*50*		*31 - 143*	*07/19/21 20:19*	*07/20/21 19:57*	*1*
2-Fluorobiphenyl	*89*		*43 - 145*	*07/19/21 20:19*	*07/20/21 19:57*	*1*
2-Fluorophenol	*94*		*31 - 166*	*07/19/21 20:19*	*07/20/21 19:57*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*07/19/21 20:19*	*07/20/21 19:57*	*1*
Phenol-d5	*90*		*30 - 153*	*07/19/21 20:19*	*07/20/21 19:57*	*1*
Terphenyl-d14 (Surr)	*121*		*42 - 157*	*07/19/21 20:19*	*07/20/21 19:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.68**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Arsenic	**8.1**		0.55	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Barium	**17**		0.55	0.063	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Beryllium	**0.54**		0.22	0.052	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Boron	**9.7**		2.8	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Cadmium	**0.084**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Calcium	**97000**	**B**	55	9.4	mg/Kg	☼	07/19/21 17:33	07/23/21 14:52	5
Chromium	**8.3**		0.55	0.27	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Cobalt	**8.2**		0.28	0.073	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Copper	**20**		0.55	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Iron	**20000**		55	29	mg/Kg	☼	07/19/21 17:33	07/23/21 14:52	5
Lead	**11**		0.28	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Magnesium	**54000**		28	14	mg/Kg	☼	07/19/21 17:33	07/23/21 14:52	5
Manganese	**550**		0.55	0.080	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Nickel	**22**		0.55	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Potassium	**1600**		28	9.8	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Selenium	**0.38**	**J**	0.55	0.33	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Silver	**0.17**	**J**	0.28	0.071	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Sodium	**450**		55	8.2	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Thallium	**1.2**		0.55	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Vanadium	**11**		0.28	0.065	mg/Kg	☼	07/19/21 17:33	07/20/21 18:49	1
Zinc	**45**		1.1	0.49	mg/Kg	☼	07/19/21 17:33	07/23/21 15:14	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		07/21/21 17:59	07/22/21 22:32	1
Iron	**0.23**	**J**	0.40	0.20	mg/L		07/21/21 17:59	07/22/21 22:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 17:59	07/22/21 22:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 17:59	07/22/21 22:32	1

Client Sample ID: 3036-9-B01-1
Date Collected: 07/08/21 09:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-1
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:32	1
Manganese	**1.8**		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:32	1
Iron	**0.23**	**J**	0.40	0.20	mg/L		07/21/21 17:59	07/22/21 22:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 17:59	07/22/21 22:32	1
Manganese	**1.8**		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.010**	**J**	0.050	0.010	mg/L		07/21/21 18:03	07/22/21 19:29	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		07/21/21 18:03	07/22/21 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 19:29	1
Boron	**0.28**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 19:29	1
Calcium	**38**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:29	1
Chromium	**0.059**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:29	1
Cobalt	**0.025**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:29	1
Iron	**41**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 19:29	1
Lead	**0.030**		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 19:29	1
Manganese	**0.39**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:29	1
Nickel	**0.071**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:29	1
Potassium	**19**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:29	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 19:29	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:29	1
Zinc	**0.12**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:31	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:31	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		07/21/21 12:55	07/22/21 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.017	0.0057	mg/Kg	☼	07/20/21 13:15	07/21/21 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 17:27	07/21/21 20:16	1
pH	**8.6**		0.2	0.2	SU			07/14/21 19:50	1

Client Sample ID: 3036-9-B01-2
Date Collected: 07/08/21 09:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-2
Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00051	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Acetone	**0.013**	**J**	0.016	0.0070	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Chloroethane	<0.0040	*-	0.0040	0.0012	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	07/08/21 09:30	07/20/21 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*07/08/21 09:30*	*07/20/21 15:29*	*1*
4-Bromofluorobenzene (Surr)	*122*	*3*	*75 - 131*	*07/08/21 09:30*	*07/20/21 15:29*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*07/08/21 09:30*	*07/20/21 15:29*	*1*
Toluene-d8 (Surr)	*110*		*75 - 124*	*07/08/21 09:30*	*07/20/21 15:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1

Client Sample ID: 3036-9-B01-2
Date Collected: 07/08/21 09:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-2
Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2-Methylnaphthalene	**0.028**	**J**	0.074	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Anthracene	**0.0076**	**J**	0.037	0.0062	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0080	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Chrysene	**0.029**	**J**	0.037	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Fluorene	**0.0081**	**J**	0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-2
Date Collected: 07/08/21 09:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-2
Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0096	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Phenanthrene	**0.067**		0.037	0.0051	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1
Pyrene	**0.028**	**J**	0.037	0.0073	mg/Kg	☼	07/19/21 20:19	07/20/21 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*41*		*31 - 143*	*07/19/21 20:19*	*07/20/21 19:35*	*1*
2-Fluorobiphenyl	*89*		*43 - 145*	*07/19/21 20:19*	*07/20/21 19:35*	*1*
2-Fluorophenol	*95*		*31 - 166*	*07/19/21 20:19*	*07/20/21 19:35*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*07/19/21 20:19*	*07/20/21 19:35*	*1*
Phenol-d5	*94*		*30 - 153*	*07/19/21 20:19*	*07/20/21 19:35*	*1*
Terphenyl-d14 (Surr)	*118*		*42 - 157*	*07/19/21 20:19*	*07/20/21 19:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.65**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Arsenic	**8.0**		0.56	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Barium	**27**		0.56	0.063	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Beryllium	**0.66**		0.22	0.052	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Boron	**12**		2.8	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Cadmium	**0.11**		0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Calcium	**70000**	**B**	56	9.4	mg/Kg	☼	07/19/21 17:33	07/23/21 14:56	5
Chromium	**12**		0.56	0.27	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Cobalt	**11**		0.28	0.073	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Copper	**26**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Iron	**16000**		11	5.8	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Magnesium	**30000**		5.6	2.8	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Manganese	**350**		0.56	0.081	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Nickel	**27**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Potassium	**2300**		28	9.8	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Silver	**0.23**	**J**	0.28	0.072	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Sodium	**200**		56	8.2	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Thallium	**1.0**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Vanadium	**15**		0.28	0.066	mg/Kg	☼	07/19/21 17:33	07/20/21 18:52	1
Zinc	**51**		1.1	0.49	mg/Kg	☼	07/19/21 17:33	07/23/21 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/21/21 18:03	07/22/21 19:32	1
Barium	<0.50		0.50	0.050	mg/L		07/21/21 18:03	07/22/21 19:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 19:32	1
Boron	**0.12**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-2
Date Collected: 07/08/21 09:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-2
Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 19:32	1
Calcium	**17**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:32	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:32	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:32	1
Iron	**2.5**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 19:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 19:32	1
Manganese	**0.040**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:32	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:32	1
Potassium	**3.3**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:32	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 19:32	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:32	1
Zinc	**0.027**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:33	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 12:55	07/22/21 10:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.016	0.0054	mg/Kg	☼	07/20/21 13:15	07/21/21 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 17:27	07/21/21 20:21	1
pH	**8.2**		0.2	0.2	SU			07/14/21 19:52	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-2 Dup

Date Collected: 07/08/21 09:35
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-3

Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00064	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00052	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
2-Butanone (MEK)	<0.0037		0.0037	0.0017	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.0011	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Acetone	**0.0079**	**J**	0.015	0.0065	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Carbon disulfide	<0.0037		0.0037	0.00078	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Chlorobenzene	<0.0015		0.0015	0.00055	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Chloroethane	<0.0037	*-	0.0037	0.0011	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Chloroform	<0.0015		0.0015	0.00052	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Chloromethane	<0.0037		0.0037	0.0015	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Ethylbenzene	<0.0015		0.0015	0.00071	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Tetrachloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Toluene	**0.00038**	**J**	0.0015	0.00038	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00066	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Trichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Vinyl chloride	<0.0015		0.0015	0.00066	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	07/08/21 09:35	07/20/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*07/08/21 09:35*	*07/20/21 15:54*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*07/08/21 09:35*	*07/20/21 15:54*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/08/21 09:35*	*07/20/21 15:54*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*07/08/21 09:35*	*07/20/21 15:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-2 Dup
Date Collected: 07/08/21 09:35
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-3
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2-Methylnaphthalene	**0.025**	**J**	0.075	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Chrysene	**0.024**	**J**	0.037	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-2 Dup
Date Collected: 07/08/21 09:35
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-3
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Phenanthrene	**0.078**		0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1
Pyrene	**0.021**	**J**	0.037	0.0074	mg/Kg	☼	07/19/21 20:19	07/20/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*47*		*31 - 143*	*07/19/21 20:19*	*07/20/21 15:54*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*07/19/21 20:19*	*07/20/21 15:54*	*1*
2-Fluorophenol	*89*		*31 - 166*	*07/19/21 20:19*	*07/20/21 15:54*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*07/19/21 20:19*	*07/20/21 15:54*	*1*
Phenol-d5	*87*		*30 - 153*	*07/19/21 20:19*	*07/20/21 15:54*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*07/19/21 20:19*	*07/20/21 15:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.80**	**J**	1.1	0.21	mg/Kg	☼	07/19/21 17:33	07/23/21 15:21	1
Arsenic	**7.9**		0.54	0.18	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Barium	**28**		0.54	0.061	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Beryllium	**0.68**		0.21	0.050	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Boron	**12**		2.7	0.25	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Cadmium	**0.10**	**J**	0.11	0.019	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Calcium	**69000**	**B**	54	9.1	mg/Kg	☼	07/19/21 17:33	07/23/21 14:59	5
Chromium	**12**		0.54	0.27	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Cobalt	**11**		0.27	0.070	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Copper	**23**		0.54	0.15	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Iron	**15000**		11	5.6	mg/Kg	☼	07/19/21 17:33	07/23/21 15:21	1
Lead	**13**		0.27	0.12	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Magnesium	**31000**		5.4	2.7	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Manganese	**370**		0.54	0.078	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Nickel	**28**		0.54	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Potassium	**2300**		27	9.5	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Selenium	**0.47**	**J**	0.54	0.32	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Silver	**0.24**	**J**	0.27	0.069	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Sodium	**170**		54	7.9	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Thallium	**1.3**		0.54	0.27	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Vanadium	**15**		0.27	0.063	mg/Kg	☼	07/19/21 17:33	07/20/21 19:02	1
Zinc	**56**		1.1	0.47	mg/Kg	☼	07/19/21 17:33	07/23/21 15:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.26**		0.20	0.20	mg/L		07/21/21 17:59	07/22/21 22:39	1

Client Sample ID: 3036-9-B01-2 Dup

Date Collected: 07/08/21 09:35
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-3

Matrix: Solid
Percent Solids: 88.1

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		07/21/21 18:03	07/22/21 19:35	1
Barium	**0.058**	**J**	0.50	0.050	mg/L		07/21/21 18:03	07/22/21 19:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 19:35	1
Boron	**0.24**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 19:35	1
Calcium	**19**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:35	1
Chromium	**0.012**	**J**	0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:35	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:35	1
Iron	**5.4**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 19:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 19:35	1
Manganese	**0.076**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:35	1
Nickel	**0.036**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:35	1
Potassium	**5.3**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:35	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 19:35	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:35	1
Zinc	**0.063**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:35	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 12:55	07/22/21 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.018	0.0059	mg/Kg	☼	07/20/21 13:15	07/21/21 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 17:27	07/21/21 20:22	1
pH	**8.0**		0.2	0.2	SU			07/14/21 19:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B01-3
Date Collected: 07/08/21 09:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-4
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00053	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Acetone	**0.017**		0.017	0.0072	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Chloroethane	<0.0042	*-	0.0042	0.0012	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	07/08/21 09:40	07/20/21 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 134*	*07/08/21 09:40*	*07/20/21 16:19*	*1*
4-Bromofluorobenzene (Surr)	*120*	*3	*75 - 131*	*07/08/21 09:40*	*07/20/21 16:19*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*07/08/21 09:40*	*07/20/21 16:19*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*07/08/21 09:40*	*07/20/21 16:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1

Client Sample ID: 3036-9-B01-3
Date Collected: 07/08/21 09:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-4
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2,4-Dinitrophenol	<0.73		0.73	0.63	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2-Methylnaphthalene	**0.16**		0.073	0.0066	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Anthracene	**0.0060**	**J**	0.036	0.0060	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Benzo[a]pyrene	<0.036	*3	0.036	0.0070	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Benzo[b]fluoranthene	<0.036	*3	0.036	0.0078	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Benzo[g,h,i]perylene	**0.020**	**J *3**	0.036	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Benzo[k]fluoranthene	<0.036	*3	0.036	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Chrysene	**0.027**	**J**	0.036	0.0098	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Dibenz(a,h)anthracene	<0.036	*3	0.036	0.0069	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Fluorene	**0.010**	**J**	0.036	0.0051	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Hexachlorobenzene	<0.073		0.073	0.0083	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1

Client Sample ID: 3036-9-B01-3
Date Collected: 07/08/21 09:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-4
Matrix: Solid
Percent Solids: 88.2

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	<0.036	*3	0.036	0.0093	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Naphthalene	**0.024**	**J**	0.036	0.0055	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Phenanthrene	**0.12**		0.036	0.0050	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1
Pyrene	**0.027**	**J**	0.036	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*53*		*31 - 143*	*07/19/21 20:19*	*07/20/21 16:16*	*1*
2-Fluorobiphenyl	*94*		*43 - 145*	*07/19/21 20:19*	*07/20/21 16:16*	*1*
2-Fluorophenol	*98*		*31 - 166*	*07/19/21 20:19*	*07/20/21 16:16*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*07/19/21 20:19*	*07/20/21 16:16*	*1*
Phenol-d5	*97*		*30 - 153*	*07/19/21 20:19*	*07/20/21 16:16*	*1*
Terphenyl-d14 (Surr)	*105*		*42 - 157*	*07/19/21 20:19*	*07/20/21 16:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.66**	**J**	1.1	0.21	mg/Kg	☼	07/19/21 17:33	07/23/21 15:24	1
Arsenic	**6.5**		0.53	0.18	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Barium	**93**		0.53	0.060	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Beryllium	**0.72**		0.21	0.050	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Boron	**12**		2.7	0.25	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Cadmium	**0.055**	**J**	0.11	0.019	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Calcium	**77000**	**B**	53	9.0	mg/Kg	☼	07/19/21 17:33	07/23/21 15:03	5
Chromium	**13**		0.53	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Cobalt	**11**		0.27	0.070	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Copper	**26**		0.53	0.15	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Iron	**22000**		53	28	mg/Kg	☼	07/19/21 17:33	07/23/21 15:03	5
Lead	**12**		0.27	0.12	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Magnesium	**42000**		27	13	mg/Kg	☼	07/19/21 17:33	07/23/21 15:03	5
Manganese	**370**		0.53	0.077	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Nickel	**28**		0.53	0.15	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Potassium	**2600**		27	9.4	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Silver	**0.24**	**J**	0.27	0.068	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Sodium	**170**		53	7.9	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Thallium	**1.5**		0.53	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Vanadium	**15**		0.27	0.063	mg/Kg	☼	07/19/21 17:33	07/20/21 19:05	1
Zinc	**44**		1.1	0.47	mg/Kg	☼	07/19/21 17:33	07/23/21 15:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/21/21 17:59	07/22/21 22:43	1
Iron	<0.40		0.40	0.20	mg/L		07/21/21 17:59	07/22/21 22:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 17:59	07/22/21 22:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 17:59	07/22/21 22:43	1

Client Sample ID: 3036-9-B01-3
Date Collected: 07/08/21 09:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-4
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:43	1
Manganese	**1.7**		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:43	1
Iron	<0.40		0.40	0.20	mg/L		07/21/21 17:59	07/22/21 22:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 17:59	07/22/21 22:43	1
Manganese	**1.7**		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:43	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		07/21/21 18:03	07/22/21 19:45	1
Barium	**0.12**	**J**	0.50	0.050	mg/L		07/21/21 18:03	07/22/21 19:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 19:45	1
Boron	**0.16**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 19:45	1
Calcium	**23**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:45	1
Chromium	**0.029**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:45	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:45	1
Iron	**16**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 19:45	1
Lead	**0.0093**		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 19:45	1
Manganese	**0.17**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:45	1
Nickel	**0.028**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:45	1
Potassium	**11**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:45	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 19:45	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:45	1
Zinc	**0.038**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:37	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 12:55	07/22/21 10:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.018	0.0059	mg/Kg	☼	07/20/21 13:15	07/21/21 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	☼	07/21/21 17:27	07/21/21 20:24	1
pH	**8.1**		0.2	0.2	SU			07/14/21 20:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B02-1
Date Collected: 07/08/21 09:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-5
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	0.00061	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Acetone	**0.017**	**J**	0.018	0.0079	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Carbon disulfide	<0.0045		0.0045	0.00095	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Chloroethane	<0.0045	*-	0.0045	0.0013	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	07/08/21 09:50	07/20/21 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/08/21 09:50*	*07/20/21 16:45*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*	*07/08/21 09:50*	*07/20/21 16:45*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/08/21 09:50*	*07/20/21 16:45*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*07/08/21 09:50*	*07/20/21 16:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1

Client Sample ID: 3036-9-B02-1
Date Collected: 07/08/21 09:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-5
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	<0.38		0.38	0.088	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Benzo[a]anthracene	**0.017**	**J**	0.038	0.0052	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Benzo[a]pyrene	**0.023**	**J**	0.038	0.0075	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Benzo[b]fluoranthene	**0.039**		0.038	0.0084	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Benzo[g,h,i]perylene	**0.030**	**J**	0.038	0.012	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Benzo[k]fluoranthene	**0.011**	**J**	0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Chrysene	**0.039**		0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Fluoranthene	**0.027**	**J**	0.038	0.0072	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1

Client Sample ID: 3036-9-B02-1
Date Collected: 07/08/21 09:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-5
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	**0.013**	**J**	0.038	0.010	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Phenanthrene	**0.035**	**J**	0.038	0.0054	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1
Pyrene	**0.038**		0.038	0.0077	mg/Kg	☼	07/19/21 20:19	07/21/21 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*31 - 143*	*07/19/21 20:19*	*07/21/21 16:17*	*1*
2-Fluorobiphenyl	*92*		*43 - 145*	*07/19/21 20:19*	*07/21/21 16:17*	*1*
2-Fluorophenol	*92*		*31 - 166*	*07/19/21 20:19*	*07/21/21 16:17*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*07/19/21 20:19*	*07/21/21 16:17*	*1*
Phenol-d5	*80*		*30 - 153*	*07/19/21 20:19*	*07/21/21 16:17*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*07/19/21 20:19*	*07/21/21 16:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.83**	**J**	1.2	0.23	mg/Kg	☼	07/19/21 17:33	07/23/21 15:38	1
Arsenic	**5.2**		0.59	0.20	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Barium	**51**		0.59	0.067	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Beryllium	**0.94**		0.23	0.055	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Boron	**16**		2.9	0.27	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Cadmium	**0.042**	**J**	0.12	0.021	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Calcium	**65000**	**B**	59	9.9	mg/Kg	☼	07/19/21 17:33	07/23/21 15:06	5
Chromium	**20**		0.59	0.29	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Cobalt	**13**		0.29	0.077	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Copper	**20**		0.59	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Iron	**18000**		12	6.1	mg/Kg	☼	07/19/21 17:33	07/23/21 15:38	1
Lead	**12**		0.29	0.14	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Magnesium	**24000**		5.9	2.9	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Manganese	**320**		0.59	0.085	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Nickel	**34**		0.59	0.17	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Potassium	**4000**		29	10	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Selenium	<0.59		0.59	0.34	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Silver	**0.30**		0.29	0.075	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Sodium	**1000**		59	8.7	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Thallium	**1.3**		0.59	0.29	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Vanadium	**24**		0.29	0.069	mg/Kg	☼	07/19/21 17:33	07/20/21 19:09	1
Zinc	**50**		1.2	0.51	mg/Kg	☼	07/19/21 17:33	07/23/21 15:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 17:59	07/22/21 22:47	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:47	1
Iron	<0.40		0.40	0.20	mg/L		07/21/21 17:59	07/22/21 22:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 17:59	07/22/21 22:47	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B02-1
Date Collected: 07/08/21 09:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-5
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.2		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:47	1
Nickel	0.074		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		07/21/21 18:03	07/22/21 19:48	1
Barium	0.46	J	0.50	0.050	mg/L		07/21/21 18:03	07/22/21 19:48	1
Beryllium	0.0059		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 19:48	1
Boron	0.43		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 19:48	1
Calcium	79		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:48	1
Chromium	0.13		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:48	1
Cobalt	0.056		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:48	1
Iron	85		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 19:48	1
Lead	0.048		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 19:48	1
Manganese	0.93		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:48	1
Nickel	0.15		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:48	1
Potassium	38		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:48	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 19:48	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:48	1
Zinc	0.21	J	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:39	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 12:55	07/22/21 10:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0063	mg/Kg	☼	07/20/21 13:15	07/21/21 08:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	☼	07/21/21 17:27	07/21/21 20:26	1
pH	8.4		0.2	0.2	SU			07/14/21 20:02	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B02-2
Date Collected: 07/08/21 10:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-6
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00054	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Acetone	**0.016**	**J**	0.017	0.0074	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Chloroethane	<0.0043	*-	0.0043	0.0013	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	07/08/21 10:00	07/20/21 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*07/08/21 10:00*	*07/20/21 17:10*	*1*
4-Bromofluorobenzene (Surr)	*110*	*3	*75 - 131*	*07/08/21 10:00*	*07/20/21 17:10*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*07/08/21 10:00*	*07/20/21 17:10*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*07/08/21 10:00*	*07/20/21 17:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1

Client Sample ID: 3036-9-B02-2
Date Collected: 07/08/21 10:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-6
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0080	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Chrysene	**0.017**	**J**	0.037	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B02-2
Date Collected: 07/08/21 10:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-6
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0096	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Phenanthrene	**0.012**	**J**	0.037	0.0051	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1
Pyrene	**0.019**	**J**	0.037	0.0073	mg/Kg	☼	07/19/21 20:19	07/20/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*31 - 143*	*07/19/21 20:19*	*07/20/21 17:01*	*1*
2-Fluorobiphenyl	*93*		*43 - 145*	*07/19/21 20:19*	*07/20/21 17:01*	*1*
2-Fluorophenol	*93*		*31 - 166*	*07/19/21 20:19*	*07/20/21 17:01*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*07/19/21 20:19*	*07/20/21 17:01*	*1*
Phenol-d5	*94*		*30 - 153*	*07/19/21 20:19*	*07/20/21 17:01*	*1*
Terphenyl-d14 (Surr)	*107*		*42 - 157*	*07/19/21 20:19*	*07/20/21 17:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 17:33	07/23/21 15:41	1
Arsenic	**6.4**		0.56	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Barium	**22**		0.56	0.064	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Beryllium	**0.54**		0.23	0.053	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Boron	**7.8**		2.8	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Cadmium	**0.10**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Calcium	**82000**	**B**	56	9.6	mg/Kg	☼	07/19/21 17:33	07/23/21 15:10	5
Chromium	**10**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Cobalt	**9.9**		0.28	0.074	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Copper	**18**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Iron	**18000**		56	29	mg/Kg	☼	07/19/21 17:33	07/23/21 15:10	5
Lead	**11**		0.28	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Magnesium	**45000**		28	14	mg/Kg	☼	07/19/21 17:33	07/23/21 15:10	5
Manganese	**480**		0.56	0.082	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Nickel	**22**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Potassium	**1600**		28	10	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Silver	**0.21**	**J**	0.28	0.073	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Sodium	**160**		56	8.3	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Thallium	**1.5**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Vanadium	**13**		0.28	0.067	mg/Kg	☼	07/19/21 17:33	07/20/21 19:12	1
Zinc	**41**		1.1	0.50	mg/Kg	☼	07/19/21 17:33	07/23/21 15:41	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		07/21/21 18:03	07/22/21 19:51	1
Barium	<0.50		0.50	0.050	mg/L		07/21/21 18:03	07/22/21 19:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 19:51	1
Boron	**0.13**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:26	1

Client Sample ID: 3036-9-B02-2
Date Collected: 07/08/21 10:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-6
Matrix: Solid
Percent Solids: 86.8

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		07/21/21 18:03	07/22/21 19:51	1
Calcium	**21**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:51	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:51	1
Iron	**0.26**	**J**	0.40	0.20	mg/L		07/21/21 18:03	07/22/21 19:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 19:51	1
Manganese	**0.054**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:51	1
Nickel	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:51	1
Potassium	**1.4**	**J**	2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 19:51	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:51	1
Zinc	<0.50		0.50	0.020	mg/L		07/21/21 18:03	07/22/21 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:41	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:41	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		07/21/21 12:55	07/22/21 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.019	0.0062	mg/Kg	☼	07/20/21 13:15	07/21/21 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	☼	07/21/21 20:05	07/22/21 10:42	1
pH	**8.3**		0.2	0.2	SU			07/14/21 20:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B02-3
Date Collected: 07/08/21 10:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-7
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	0.00057	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00054	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Acetone	**0.021**		0.017	0.0074	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Chloroethane	<0.0042	*-	0.0042	0.0013	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	07/08/21 10:10	07/20/21 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/08/21 10:10*	*07/20/21 17:35*	*1*
4-Bromofluorobenzene (Surr)	*106*	*3*	*75 - 131*	*07/08/21 10:10*	*07/20/21 17:35*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*07/08/21 10:10*	*07/20/21 17:35*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*07/08/21 10:10*	*07/20/21 17:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1

Client Sample ID: 3036-9-B02-3
Date Collected: 07/08/21 10:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-7
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	<0.38		0.38	0.088	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Chrysene	**0.016**	**J**	0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B02-3
Date Collected: 07/08/21 10:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-7
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	<0.038		0.038	0.010	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	07/19/21 20:19	07/21/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*48*		*31 - 143*	*07/19/21 20:19*	*07/21/21 16:39*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*07/19/21 20:19*	*07/21/21 16:39*	*1*
2-Fluorophenol	*91*		*31 - 166*	*07/19/21 20:19*	*07/21/21 16:39*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*07/19/21 20:19*	*07/21/21 16:39*	*1*
Phenol-d5	*81*		*30 - 153*	*07/19/21 20:19*	*07/21/21 16:39*	*1*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*07/19/21 20:19*	*07/21/21 16:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.66**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 17:33	07/23/21 15:44	1
Arsenic	**8.7**		0.56	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Barium	**13**		0.56	0.064	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Beryllium	**0.49**		0.23	0.053	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Boron	**7.4**		2.8	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Cadmium	**0.078**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Calcium	**84000**	**B**	56	9.6	mg/Kg	☼	07/19/21 17:33	07/23/21 15:14	5
Chromium	**8.4**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Cobalt	**9.9**		0.28	0.074	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Copper	**24**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Iron	**19000**		56	29	mg/Kg	☼	07/19/21 17:33	07/23/21 15:14	5
Lead	**14**		0.28	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Magnesium	**47000**		28	14	mg/Kg	☼	07/19/21 17:33	07/23/21 15:14	5
Manganese	**540**		0.56	0.082	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Nickel	**23**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Potassium	**1400**		28	10	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Silver	**0.14**	**J**	0.28	0.073	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Sodium	**140**		56	8.4	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Thallium	**1.5**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Vanadium	**11**		0.28	0.067	mg/Kg	☼	07/19/21 17:33	07/20/21 19:16	1
Zinc	**41**		1.1	0.50	mg/Kg	☼	07/19/21 17:33	07/23/21 15:44	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		07/21/21 18:03	07/22/21 19:54	1
Barium	<0.50		0.50	0.050	mg/L		07/21/21 18:03	07/22/21 19:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 19:54	1
Boron	**0.17**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:29	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B02-3
Date Collected: 07/08/21 10:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-7
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 19:54	1
Calcium	**19**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:54	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:54	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:54	1
Iron	**0.37**	**J**	0.40	0.20	mg/L		07/21/21 18:03	07/22/21 19:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 19:54	1
Manganese	**0.022**	**J**	0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:54	1
Nickel	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:54	1
Potassium	**1.5**	**J**	2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:54	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 19:54	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:54	1
Zinc	**0.026**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:43	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 12:55	07/22/21 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.018	0.0059	mg/Kg	☼	07/20/21 13:15	07/21/21 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 20:05	07/22/21 10:44	1
pH	**8.2**		0.2	0.2	SU			07/14/21 20:07	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B03-1
Date Collected: 07/08/21 10:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-8
Matrix: Solid
Percent Solids: 85.6

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	☼	07/08/21 10:20	07/20/21 18:00	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00054	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Acetone	**0.0088**	**J**	0.017	0.0074	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Chloroethane	<0.0042	*-	0.0042	0.0012	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	07/08/21 10:20	07/20/21 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 134*	*07/08/21 10:20*	*07/20/21 18:00*	*1*
4-Bromofluorobenzene (Surr)	*102*	*3*	*75 - 131*	*07/08/21 10:20*	*07/20/21 18:00*	*1*
Dibromofluoromethane	*110*		*75 - 126*	*07/08/21 10:20*	*07/20/21 18:00*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*07/08/21 10:20*	*07/20/21 18:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1

Client Sample ID: 3036-9-B03-1
Date Collected: 07/08/21 10:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-8
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2-Methylnaphthalene	**0.043**	**J**	0.075	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0080	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Chrysene	**0.019**	**J**	0.037	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Fluoranthene	**0.0077**	**J**	0.037	0.0069	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1

Client Sample ID: 3036-9-B03-1
Date Collected: 07/08/21 10:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-8
Matrix: Solid
Percent Solids: 85.6

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	<0.037	*3	0.037	0.0096	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Phenanthrene	**0.042**		0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1
Pyrene	**0.021**	**J**	0.037	0.0073	mg/Kg	☼	07/19/21 20:19	07/20/21 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*36*		*31 - 143*	*07/19/21 20:19*	*07/20/21 17:45*	*1*
2-Fluorobiphenyl	*73*		*43 - 145*	*07/19/21 20:19*	*07/20/21 17:45*	*1*
2-Fluorophenol	*79*		*31 - 166*	*07/19/21 20:19*	*07/20/21 17:45*	*1*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*07/19/21 20:19*	*07/20/21 17:45*	*1*
Phenol-d5	*75*		*30 - 153*	*07/19/21 20:19*	*07/20/21 17:45*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*07/19/21 20:19*	*07/20/21 17:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.78**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 17:33	07/23/21 15:48	1
Arsenic	**6.9**		0.56	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Barium	**36**		0.56	0.063	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Beryllium	**0.92**		0.22	0.052	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Boron	**13**		2.8	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Cadmium	**0.087**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Calcium	**67000**	**B**	56	9.4	mg/Kg	☼	07/19/21 17:33	07/23/21 15:17	5
Chromium	**19**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Cobalt	**15**		0.28	0.073	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Copper	**19**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Iron	**17000**		11	5.8	mg/Kg	☼	07/19/21 17:33	07/23/21 15:48	1
Lead	**12**		0.28	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Magnesium	**28000**		5.6	2.8	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Manganese	**350**		0.56	0.081	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Nickel	**38**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Potassium	**3200**		28	9.9	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Silver	**0.24**	**J**	0.28	0.072	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Sodium	**910**		56	8.2	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Thallium	**1.4**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Vanadium	**21**		0.28	0.066	mg/Kg	☼	07/19/21 17:33	07/20/21 19:19	1
Zinc	**77**		1.1	0.49	mg/Kg	☼	07/19/21 17:33	07/23/21 15:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		07/21/21 17:59	07/22/21 23:05	1

Client Sample ID: 3036-9-B03-1

Date Collected: 07/08/21 10:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-8

Matrix: Solid
Percent Solids: 85.6

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		07/21/21 18:03	07/22/21 19:57	1
Barium	**0.075**	**J**	0.50	0.050	mg/L		07/21/21 18:03	07/22/21 19:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 19:57	1
Boron	**0.11**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 19:57	1
Calcium	**17**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:57	1
Chromium	**0.017**	**J**	0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:57	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:57	1
Iron	**8.7**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 19:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 19:57	1
Manganese	**0.097**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:57	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:57	1
Potassium	**7.1**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 19:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 19:57	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 19:57	1
Zinc	**0.028**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:45	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:45	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		07/21/21 12:55	07/22/21 10:52	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	☼	07/20/21 13:15	07/21/21 08:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 20:05	07/22/21 10:45	1
pH	**8.2**		0.2	0.2	SU			07/14/21 20:10	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B03-2
Date Collected: 07/08/21 10:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-9
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Acetone	**0.015**	**J**	0.019	0.0084	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Chloroethane	<0.0048	*-	0.0048	0.0014	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Toluene	**0.00055**	**J**	0.0019	0.00049	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1
Xylenes, Total	<0.0038		0.0038	0.00062	mg/Kg	☼	07/08/21 10:30	07/20/21 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*07/08/21 10:30*	*07/20/21 18:25*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*07/08/21 10:30*	*07/20/21 18:25*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*07/08/21 10:30*	*07/20/21 18:25*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*07/08/21 10:30*	*07/20/21 18:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1

Client Sample ID: 3036-9-B03-2
Date Collected: 07/08/21 10:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-9
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2-Methylnaphthalene	<0.081		0.081	0.0073	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Benzo[a]anthracene	**0.0085**	**J**	0.040	0.0054	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Benzo[a]pyrene	**0.0097**	**J**	0.040	0.0077	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Benzo[b]fluoranthene	**0.014**	**J**	0.040	0.0086	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Benzo[g,h,i]perylene	**0.029**	**J**	0.040	0.013	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Chrysene	**0.016**	**J**	0.040	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Fluoranthene	**0.0096**	**J**	0.040	0.0074	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Fluorene	**0.0060**	**J**	0.040	0.0056	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B03-2
Date Collected: 07/08/21 10:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-9
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Phenanthrene	**0.025**	**J**	0.040	0.0056	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1
Pyrene	**0.022**	**J**	0.040	0.0079	mg/Kg	☼	07/19/21 20:19	07/20/21 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*31 - 143*	*07/19/21 20:19*	*07/20/21 14:04*	*1*
2-Fluorobiphenyl	*76*		*43 - 145*	*07/19/21 20:19*	*07/20/21 14:04*	*1*
2-Fluorophenol	*86*		*31 - 166*	*07/19/21 20:19*	*07/20/21 14:04*	*1*
Nitrobenzene-d5 (Surr)	*91*		*37 - 147*	*07/19/21 20:19*	*07/20/21 14:04*	*1*
Phenol-d5	*82*		*30 - 153*	*07/19/21 20:19*	*07/20/21 14:04*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*07/19/21 20:19*	*07/20/21 14:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.0**	**J**	1.2	0.24	mg/Kg	☼	07/19/21 17:33	07/23/21 15:51	1
Arsenic	**4.3**		0.61	0.21	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Barium	**67**		0.61	0.069	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Beryllium	**1.1**		0.24	0.057	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Boron	**18**		3.0	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Calcium	**64000**	**B**	61	10	mg/Kg	☼	07/19/21 17:33	07/23/21 15:31	5
Chromium	**25**		0.61	0.30	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Cobalt	**14**		0.30	0.080	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Copper	**15**		0.61	0.17	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Iron	**20000**		12	6.3	mg/Kg	☼	07/19/21 17:33	07/23/21 15:51	1
Lead	**11**		0.30	0.14	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Magnesium	**23000**		6.1	3.0	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Manganese	**330**		0.61	0.088	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Nickel	**37**		0.61	0.18	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Potassium	**4400**		30	11	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Silver	**0.34**		0.30	0.078	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Sodium	**300**		61	9.0	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Thallium	**1.3**		0.61	0.30	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Vanadium	**28**		0.30	0.072	mg/Kg	☼	07/19/21 17:33	07/20/21 19:23	1
Zinc	**57**		1.2	0.53	mg/Kg	☼	07/19/21 17:33	07/23/21 15:51	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		07/21/21 18:03	07/22/21 20:01	1
Barium	**0.064**	**J**	0.50	0.050	mg/L		07/21/21 18:03	07/22/21 20:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 20:01	1
Boron	**0.31**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B03-2
Date Collected: 07/08/21 10:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-9
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 20:01	1
Calcium	**18**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:01	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:01	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:01	1
Iron	**1.4**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 20:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 20:01	1
Manganese	**0.036**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:01	1
Nickel	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:01	1
Potassium	**2.9**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:01	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 20:01	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:01	1
Zinc	**0.028**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:51	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 12:55	07/22/21 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.020	0.0068	mg/Kg	☼	07/20/21 13:15	07/21/21 08:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	☼	07/21/21 20:05	07/22/21 10:51	1
pH	**8.0**		0.2	0.2	SU			07/14/21 20:12	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B03-3
Date Collected: 07/08/21 10:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-10
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.00067**	**J**	0.0019	0.00063	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
1,1,2,2-Tetrachloroethane	<0.0019	*3	0.0019	0.00060	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Chloroethane	<0.0047	*-	0.0047	0.0014	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Trichloroethene	**0.0019**		0.0019	0.00063	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	07/09/21 19:11	07/20/21 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*07/09/21 19:11*	*07/20/21 13:22*	*1*
4-Bromofluorobenzene (Surr)	*108*	*3	*75 - 131*	*07/09/21 19:11*	*07/20/21 13:22*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*07/09/21 19:11*	*07/20/21 13:22*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*07/09/21 19:11*	*07/20/21 13:22*	*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	☼	07/19/21 20:19	07/20/21 14:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1

Client Sample ID: 3036-9-B03-3
Date Collected: 07/08/21 10:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-10
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Chrysene	**0.013**	**J**	0.039	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B03-3
Date Collected: 07/08/21 10:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-10
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1
Pyrene	**0.012**	**J**	0.039	0.0079	mg/Kg	☼	07/19/21 20:19	07/20/21 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*36*		*31 - 143*	*07/19/21 20:19*	*07/20/21 14:26*	*1*
2-Fluorobiphenyl	*68*		*43 - 145*	*07/19/21 20:19*	*07/20/21 14:26*	*1*
2-Fluorophenol	*73*		*31 - 166*	*07/19/21 20:19*	*07/20/21 14:26*	*1*
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*	*07/19/21 20:19*	*07/20/21 14:26*	*1*
Phenol-d5	*64*		*30 - 153*	*07/19/21 20:19*	*07/20/21 14:26*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*07/19/21 20:19*	*07/20/21 14:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.84**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 17:33	07/23/21 15:54	1
Arsenic	**6.3**		0.56	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Barium	**38**		0.56	0.064	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Beryllium	**0.81**		0.22	0.052	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Boron	**13**		2.8	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Cadmium	**0.040**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Calcium	**65000**	**B**	56	9.4	mg/Kg	☼	07/19/21 17:33	07/23/21 15:35	5
Chromium	**17**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Cobalt	**13**		0.28	0.073	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Copper	**19**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Iron	**16000**		11	5.8	mg/Kg	☼	07/19/21 17:33	07/23/21 15:54	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Magnesium	**31000**		5.6	2.8	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Manganese	**410**		0.56	0.081	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Nickel	**31**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Potassium	**3000**		28	9.9	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Selenium	**0.37**	**J**	0.56	0.33	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Silver	**0.23**	**J**	0.28	0.072	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Sodium	**170**		56	8.2	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Thallium	**1.6**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Vanadium	**20**		0.28	0.066	mg/Kg	☼	07/19/21 17:33	07/20/21 19:26	1
Zinc	**43**		1.1	0.49	mg/Kg	☼	07/19/21 17:33	07/23/21 15:54	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		07/21/21 18:03	07/22/21 20:04	1
Barium	<0.50		0.50	0.050	mg/L		07/21/21 18:03	07/22/21 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 20:04	1
Boron	**0.068**	**J**	0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B03-3
Date Collected: 07/08/21 10:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-10
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 20:04	1
Calcium	**19**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:04	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:04	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:04	1
Iron	**0.63**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 20:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 20:04	1
Manganese	**0.040**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:04	1
Nickel	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:04	1
Potassium	**1.9**	**J**	2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:04	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 20:04	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:04	1
Zinc	<0.50		0.50	0.020	mg/L		07/21/21 18:03	07/22/21 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:53	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 12:55	07/22/21 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.019	0.0062	mg/Kg	☼	07/20/21 13:15	07/21/21 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	☼	07/21/21 20:05	07/22/21 10:52	1
pH	**8.1**		0.2	0.2	SU			07/14/21 20:15	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-1

Date Collected: 07/08/21 10:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-11

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	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Benzene	**0.00051**	**J**	0.0018	0.00047	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Chloroethane	<0.0046	*-	0.0046	0.0014	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Toluene	**0.00063**	**J**	0.0018	0.00046	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	07/08/21 10:50	07/20/21 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*07/08/21 10:50*	*07/20/21 13:47*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*	*07/08/21 10:50*	*07/20/21 13:47*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*07/08/21 10:50*	*07/20/21 13:47*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 10:50*	*07/20/21 13:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-1
Date Collected: 07/08/21 10:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-11
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	<0.38		0.38	0.087	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Benzo[b]fluoranthene	**0.011**	**J**	0.038	0.0082	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-1
Date Collected: 07/08/21 10:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-11
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	<0.038		0.038	0.0099	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1
Pyrene	**0.0076**	**J**	0.038	0.0076	mg/Kg	☼	07/19/21 20:19	07/21/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*31 - 143*	*07/19/21 20:19*	*07/21/21 17:01*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*07/19/21 20:19*	*07/21/21 17:01*	*1*
2-Fluorophenol	*85*		*31 - 166*	*07/19/21 20:19*	*07/21/21 17:01*	*1*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*	*07/19/21 20:19*	*07/21/21 17:01*	*1*
Phenol-d5	*81*		*30 - 153*	*07/19/21 20:19*	*07/21/21 17:01*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*07/19/21 20:19*	*07/21/21 17:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.76**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 17:33	07/23/21 15:57	1
Arsenic	**5.0**		0.55	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Barium	**35**		0.55	0.063	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Beryllium	**0.83**		0.22	0.052	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Boron	**13**		2.8	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Cadmium	**0.15**		0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Calcium	**68000**	**B**	55	9.4	mg/Kg	☼	07/19/21 17:33	07/23/21 15:39	5
Chromium	**18**		0.55	0.27	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Cobalt	**14**		0.28	0.072	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Copper	**19**		0.55	0.15	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Iron	**16000**		11	5.8	mg/Kg	☼	07/19/21 17:33	07/23/21 15:57	1
Lead	**12**		0.28	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Magnesium	**30000**		5.5	2.7	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Manganese	**560**		0.55	0.080	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Nickel	**35**		0.55	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Potassium	**3000**		28	9.8	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Selenium	**0.40**	**J**	0.55	0.33	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Silver	**0.22**	**J**	0.28	0.071	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Sodium	**920**		55	8.2	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Thallium	**1.7**		0.55	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Vanadium	**20**		0.28	0.065	mg/Kg	☼	07/19/21 17:33	07/20/21 19:29	1
Zinc	**53**		1.1	0.49	mg/Kg	☼	07/19/21 17:33	07/23/21 15:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/21/21 17:59	07/22/21 23:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 17:59	07/22/21 23:17	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 23:17	1
Iron	<0.40		0.40	0.20	mg/L		07/21/21 17:59	07/22/21 23:17	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-1
Date Collected: 07/08/21 10:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-11
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		07/21/21 17:59	07/22/21 23:17	1
Manganese	**0.85**		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 23:17	1
Nickel	<0.025		0.025	0.010	mg/L		07/21/21 17:59	07/22/21 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.053**		0.050	0.010	mg/L		07/21/21 18:03	07/22/21 20:07	1
Barium	**0.40**	**J**	0.50	0.050	mg/L		07/21/21 18:03	07/22/21 20:07	1
Beryllium	**0.0079**		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 20:07	1
Boron	**0.47**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 20:07	1
Calcium	**60**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:07	1
Chromium	**0.17**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:07	1
Cobalt	**0.050**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:07	1
Iron	**150**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 20:07	1
Lead	**0.079**		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 20:07	1
Manganese	**0.62**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:07	1
Nickel	**0.19**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:07	1
Potassium	**39**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:07	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 20:07	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:07	1
Zinc	**0.47**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/21/21 17:59	07/23/21 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:55	1
Thallium	**0.0022**		0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 12:55	07/22/21 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.017	0.0058	mg/Kg	☼	07/20/21 13:15	07/21/21 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 20:05	07/22/21 10:54	1
pH	**8.3**		0.2	0.2	SU			07/14/21 20:18	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-2
Date Collected: 07/08/21 11:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-12
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00047	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00063	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
1,1-Dichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
1,1-Dichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00051	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0011	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Acetone	<0.015		0.015	0.0064	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Benzene	<0.0015		0.0015	0.00037	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Bromoform	<0.0015		0.0015	0.00043	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Carbon disulfide	<0.0036		0.0036	0.00076	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Carbon tetrachloride	<0.0015		0.0015	0.00042	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Chlorobenzene	<0.0015		0.0015	0.00054	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Chloroethane	<0.0036	*-	0.0036	0.0011	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Chloroform	<0.0015		0.0015	0.00051	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Chloromethane	<0.0036		0.0036	0.0015	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00041	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00044	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Dibromochloromethane	<0.0015		0.0015	0.00048	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Ethylbenzene	<0.0015		0.0015	0.00070	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00043	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Styrene	<0.0015		0.0015	0.00044	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Tetrachloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Toluene	<0.0015		0.0015	0.00037	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00065	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00051	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Trichloroethene	**0.00080**	**J**	0.0015	0.00049	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Vinyl chloride	<0.0015		0.0015	0.00065	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1
Xylenes, Total	<0.0029		0.0029	0.00047	mg/Kg	☼	07/09/21 19:11	07/21/21 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*07/09/21 19:11*	*07/21/21 12:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*	*07/09/21 19:11*	*07/21/21 12:02*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*07/09/21 19:11*	*07/21/21 12:02*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*07/09/21 19:11*	*07/21/21 12:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1

Client Sample ID: 3036-9-B04-2
Date Collected: 07/08/21 11:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-12
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2-Methylnaphthalene	**0.042**	**J**	0.074	0.0067	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Benzo[a]anthracene	**0.0054**	**J**	0.036	0.0049	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Benzo[a]pyrene	<0.036	*3	0.036	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Benzo[b]fluoranthene	<0.036	*3	0.036	0.0079	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Benzo[g,h,i]perylene	**0.017**	**J *3**	0.036	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Benzo[k]fluoranthene	<0.036	*3	0.036	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Chrysene	**0.035**	**J**	0.036	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Dibenz(a,h)anthracene	<0.036	*3	0.036	0.0071	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-2
Date Collected: 07/08/21 11:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-12
Matrix: Solid
Percent Solids: 89.0

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	<0.036	*3	0.036	0.0095	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Phenanthrene	**0.11**		0.036	0.0051	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1
Pyrene	**0.027**	**J**	0.036	0.0073	mg/Kg	☼	07/19/21 20:19	07/20/21 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*31 - 143*	*07/19/21 20:19*	*07/20/21 18:07*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*07/19/21 20:19*	*07/20/21 18:07*	*1*
2-Fluorophenol	*92*		*31 - 166*	*07/19/21 20:19*	*07/20/21 18:07*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*07/19/21 20:19*	*07/20/21 18:07*	*1*
Phenol-d5	*86*		*30 - 153*	*07/19/21 20:19*	*07/20/21 18:07*	*1*
Terphenyl-d14 (Surr)	*108*		*42 - 157*	*07/19/21 20:19*	*07/20/21 18:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.87**	**J**	1.0	0.20	mg/Kg	☼	07/19/21 17:33	07/23/21 16:01	1
Arsenic	**7.2**		0.52	0.18	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Barium	**25**		0.52	0.059	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Beryllium	**0.74**		0.21	0.049	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Boron	**11**		2.6	0.24	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Cadmium	**0.087**	**J**	0.10	0.019	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Calcium	**77000**	**B**	52	8.8	mg/Kg	☼	07/19/21 17:33	07/23/21 15:46	5
Chromium	**13**		0.52	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Cobalt	**13**		0.26	0.068	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Copper	**24**		0.52	0.15	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Iron	**15000**		10	5.4	mg/Kg	☼	07/19/21 17:33	07/23/21 16:01	1
Lead	**14**		0.26	0.12	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Magnesium	**31000**	**B**	5.2	2.6	mg/Kg	☼	07/19/21 17:33	07/23/21 16:01	1
Manganese	**440**		0.52	0.076	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Nickel	**31**		0.52	0.15	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Potassium	**2500**		26	9.2	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Silver	**0.21**	**J**	0.26	0.067	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Sodium	**440**		52	7.7	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Thallium	**1.6**		0.52	0.26	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Vanadium	**16**		0.26	0.062	mg/Kg	☼	07/19/21 17:33	07/20/21 19:33	1
Zinc	**52**		1.0	0.46	mg/Kg	☼	07/19/21 17:33	07/23/21 16:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 17:59	07/22/21 23:21	1

Client Sample ID: 3036-9-B04-2

Date Collected: 07/08/21 11:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-12

Matrix: Solid
Percent Solids: 89.0

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		07/21/21 18:03	07/22/21 20:10	1
Barium	<0.50		0.50	0.050	mg/L		07/21/21 18:03	07/22/21 20:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 20:10	1
Boron	**0.12**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 14:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/21/21 18:03	07/22/21 20:10	1
Calcium	**15**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:10	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:10	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:10	1
Iron	**1.6**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 20:10	1
Lead	**0.0080**		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 20:10	1
Manganese	**0.043**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:10	1
Nickel	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:10	1
Potassium	**2.7**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 20:10	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:10	1
Zinc	**0.085**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:57	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:57	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		07/21/21 12:55	07/22/21 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.017	0.0057	mg/Kg	☼	07/20/21 13:15	07/21/21 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	☼	07/21/21 20:05	07/22/21 10:56	1
pH	**8.0**		0.2	0.2	SU			07/14/21 20:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-2 Dup

Date Collected: 07/08/21 11:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-13

Matrix: Solid
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00049	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
1,1,2,2-Tetrachloroethane	<0.0014	*3	0.0014	0.00046	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
1,1,2-Trichloroethane	<0.0014	*3	0.0014	0.00062	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
1,1-Dichloroethane	<0.0014		0.0014	0.00050	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
1,1-Dichloroethene	<0.0014		0.0014	0.00050	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00051	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
2-Hexanone	<0.0036	*3	0.0036	0.0011	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
4-Methyl-2-pentanone (MIBK)	<0.0036	*3	0.0036	0.0011	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Acetone	**0.011**	**J**	0.014	0.0063	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Benzene	<0.0014		0.0014	0.00037	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Bromoform	<0.0014	*3	0.0014	0.00042	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Carbon disulfide	<0.0036		0.0036	0.00075	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Carbon tetrachloride	<0.0014		0.0014	0.00042	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Chlorobenzene	<0.0014	*3	0.0014	0.00053	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Chloroethane	<0.0036	*-	0.0036	0.0011	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Chloroform	<0.0014		0.0014	0.00050	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Chloromethane	<0.0036		0.0036	0.0015	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00040	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
cis-1,3-Dichloropropene	<0.0014	*3	0.0014	0.00044	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Dibromochloromethane	<0.0014	*3	0.0014	0.00047	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Ethylbenzene	<0.0014	*3	0.0014	0.00069	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00043	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Styrene	<0.0014	*3	0.0014	0.00044	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Tetrachloroethene	<0.0014	*3	0.0014	0.00049	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Toluene	**0.00057**	**J *3**	0.0014	0.00037	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00064	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
trans-1,3-Dichloropropene	<0.0014	*3	0.0014	0.00051	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Trichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Vinyl chloride	<0.0014		0.0014	0.00064	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1
Xylenes, Total	<0.0029	*3	0.0029	0.00046	mg/Kg	☼	07/08/21 11:10	07/20/21 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 134*	*07/08/21 11:10*	*07/20/21 14:38*	*1*
4-Bromofluorobenzene (Surr)	*153*	*3 S1+	*75 - 131*	*07/08/21 11:10*	*07/20/21 14:38*	*1*
Dibromofluoromethane	*117*		*75 - 126*	*07/08/21 11:10*	*07/20/21 14:38*	*1*
Toluene-d8 (Surr)	*134*	*3 S1+	*75 - 124*	*07/08/21 11:10*	*07/20/21 14:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1

Client Sample ID: 3036-9-B04-2 Dup
Date Collected: 07/08/21 11:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-13
Matrix: Solid
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2-Methylnaphthalene	**0.046**	**J**	0.075	0.0068	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0080	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Benzo[g,h,i]perylene	**0.015**	**J *3**	0.037	0.012	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Chrysene	**0.023**	**J**	0.037	0.010	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Fluorene	**0.0089**	**J**	0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-2 Dup

Date Collected: 07/08/21 11:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-13

Matrix: Solid
Percent Solids: 88.6

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	<0.037	*3	0.037	0.0096	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Phenanthrene	**0.12**		0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1
Pyrene	**0.021**	**J**	0.037	0.0074	mg/Kg	☼	07/19/21 20:19	07/20/21 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*32*		*31 - 143*	*07/19/21 20:19*	*07/20/21 18:29*	*1*
2-Fluorobiphenyl	*75*		*43 - 145*	*07/19/21 20:19*	*07/20/21 18:29*	*1*
2-Fluorophenol	*81*		*31 - 166*	*07/19/21 20:19*	*07/20/21 18:29*	*1*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*07/19/21 20:19*	*07/20/21 18:29*	*1*
Phenol-d5	*76*		*30 - 153*	*07/19/21 20:19*	*07/20/21 18:29*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*07/19/21 20:19*	*07/20/21 18:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.89**	**J**	1.1	0.21	mg/Kg	☼	07/19/21 17:33	07/23/21 16:04	1
Arsenic	**10**		0.55	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Barium	**20**		0.55	0.062	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Beryllium	**0.70**		0.22	0.051	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Boron	**8.2**		2.7	0.25	mg/Kg	☼	07/19/21 17:33	07/23/21 16:04	1
Cadmium	**0.37**		0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Calcium	**71000**	**B**	55	9.3	mg/Kg	☼	07/19/21 17:33	07/23/21 15:50	5
Chromium	**11**		0.55	0.27	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Cobalt	**13**		0.27	0.072	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Copper	**30**		0.55	0.15	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Iron	**16000**		11	5.7	mg/Kg	☼	07/19/21 17:33	07/23/21 16:04	1
Lead	**17**		0.27	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Magnesium	**30000**	**B**	5.5	2.7	mg/Kg	☼	07/19/21 17:33	07/23/21 16:04	1
Manganese	**440**		0.55	0.079	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Nickel	**33**		0.55	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Potassium	**2000**		27	9.7	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Silver	**0.17**	**J**	0.27	0.071	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Sodium	**410**		55	8.1	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Thallium	**1.8**		0.55	0.27	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Vanadium	**14**		0.27	0.065	mg/Kg	☼	07/19/21 17:33	07/20/21 19:42	1
Zinc	**82**		1.1	0.48	mg/Kg	☼	07/19/21 17:33	07/23/21 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/21/21 18:03	07/22/21 20:13	1
Barium	<0.50		0.50	0.050	mg/L		07/21/21 18:03	07/22/21 20:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 20:13	1
Boron	**0.30**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 15:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-2 Dup
Date Collected: 07/08/21 11:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-13
Matrix: Solid
Percent Solids: 88.6

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		07/21/21 18:03	07/22/21 20:13	1
Calcium	**18**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:13	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:13	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:13	1
Iron	**0.51**		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 20:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 20:13	1
Manganese	**0.017**	**J**	0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:13	1
Nickel	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:13	1
Potassium	**2.1**	**J**	2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:13	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 20:13	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:13	1
Zinc	**0.028**	**J**	0.50	0.020	mg/L		07/21/21 18:03	07/22/21 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 14:59	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 14:59	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		07/21/21 12:55	07/22/21 11:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.017	0.0057	mg/Kg	☼	07/20/21 13:15	07/21/21 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 20:05	07/22/21 10:58	1
pH	**8.3**		0.2	0.2	SU			07/14/21 20:24	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-3
Date Collected: 07/08/21 11:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-14
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Acetone	**0.014**	**J**	0.018	0.0079	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Chloroethane	<0.0046	*-	0.0046	0.0013	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	07/08/21 11:20	07/20/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*07/08/21 11:20*	*07/20/21 15:03*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*	*07/08/21 11:20*	*07/20/21 15:03*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/08/21 11:20*	*07/20/21 15:03*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*07/08/21 11:20*	*07/20/21 15:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1

Client Sample ID: 3036-9-B04-3
Date Collected: 07/08/21 11:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-14
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Chrysene	**0.015**	**J**	0.037	0.010	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1

Client Sample ID: 3036-9-B04-3
Date Collected: 07/08/21 11:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-14
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Phenanthrene	**0.0084**	**J**	0.037	0.0052	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1
Pyrene	**0.012**	**J**	0.037	0.0074	mg/Kg	☼	07/19/21 20:19	07/21/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*51*		*31 - 143*	*07/19/21 20:19*	*07/21/21 17:23*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*07/19/21 20:19*	*07/21/21 17:23*	*1*
2-Fluorophenol	*90*		*31 - 166*	*07/19/21 20:19*	*07/21/21 17:23*	*1*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*	*07/19/21 20:19*	*07/21/21 17:23*	*1*
Phenol-d5	*81*		*30 - 153*	*07/19/21 20:19*	*07/21/21 17:23*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*07/19/21 20:19*	*07/21/21 17:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.36**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 17:33	07/23/21 16:07	1
Arsenic	**6.9**		0.56	0.19	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Barium	**16**		0.56	0.064	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Beryllium	**0.47**		0.23	0.053	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Boron	**5.5**		2.8	0.26	mg/Kg	☼	07/19/21 17:33	07/23/21 16:07	1
Cadmium	**0.11**		0.11	0.020	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Calcium	**88000**	**B**	56	9.6	mg/Kg	☼	07/19/21 17:33	07/23/21 15:53	5
Chromium	**8.1**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Cobalt	**8.4**		0.28	0.074	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Copper	**19**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Iron	**16000**		56	29	mg/Kg	☼	07/19/21 17:33	07/23/21 15:53	5
Lead	**11**		0.28	0.13	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Magnesium	**48000**		28	14	mg/Kg	☼	07/19/21 17:33	07/23/21 15:53	5
Manganese	**540**		0.56	0.082	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Nickel	**19**		0.56	0.16	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Potassium	**1300**		28	10	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Silver	**0.11**	**J**	0.28	0.073	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Sodium	**350**		56	8.4	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Thallium	**1.2**		0.56	0.28	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Vanadium	**11**		0.28	0.067	mg/Kg	☼	07/19/21 17:33	07/20/21 19:46	1
Zinc	**42**		1.1	0.50	mg/Kg	☼	07/19/21 17:33	07/23/21 16:07	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		07/21/21 18:03	07/22/21 20:26	1
Barium	<0.50		0.50	0.050	mg/L		07/21/21 18:03	07/22/21 20:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/21/21 18:03	07/22/21 20:26	1
Boron	**0.11**		0.10	0.050	mg/L		07/21/21 18:03	07/23/21 15:04	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Client Sample ID: 3036-9-B04-3
Date Collected: 07/08/21 11:20
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202098-14
Matrix: Solid
Percent Solids: 86.1

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		07/21/21 18:03	07/22/21 20:26	1
Calcium	**21**		2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:26	1
Chromium	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:26	1
Cobalt	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:26	1
Iron	<0.40		0.40	0.20	mg/L		07/21/21 18:03	07/22/21 20:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/21/21 18:03	07/22/21 20:26	1
Manganese	**0.064**		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:26	1
Nickel	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:26	1
Potassium	**1.2**	**J**	2.5	0.50	mg/L		07/21/21 18:03	07/22/21 20:26	1
Selenium	<0.050		0.050	0.020	mg/L		07/21/21 18:03	07/22/21 20:26	1
Silver	<0.025		0.025	0.010	mg/L		07/21/21 18:03	07/22/21 20:26	1
Zinc	<0.50		0.50	0.020	mg/L		07/21/21 18:03	07/22/21 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/21/21 18:03	07/22/21 15:01	1
Thallium	<0.0020	^+	0.0020	0.0020	mg/L		07/21/21 18:03	07/22/21 15:01	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		07/21/21 12:55	07/22/21 11:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.017	0.0056	mg/Kg	☼	07/20/21 13:15	07/21/21 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 20:05	07/22/21 10:59	1
pH	**7.9**		0.2	0.2	SU			07/14/21 20:29	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202098-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

500-202098 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 - 046A Project No PTB/WO: 184-006/046 TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other Sampler: PKC, SK, SM, SR

COC No 1 of 3

Lab Job No 500-202098

Sample Temp 5.3→4.9, 2.6→2.2, 3.8→3.4, 5.6

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	3036-9-B01-1	7/8/24	9:20	S	x	x					x	x	x	x	x					
2	3036-9-B01-2	7/8/24	9:30	S	x	x					x	x	x	x	x					
3	3036-9-B01-2 DUP	7/8/24	9:35	S	↓	↓					↓	↓	↓	↓	↓					
4	3036-9-B01-3	7/8/24	9:40	S																
5	3036-9-B02-1	7/8/24	9:50	S																
6	3036-9-B02-2	7/8/24	10:00	S																
7	3036-9-B02-3	7/8/24	10:10	S	x	x					x	x	x	x	x					
8	3036-9-B03-1	7/8/24	10:20	S	x	x					x	x	x	x	x					
9	3036-9-B03-2	7/8/24	10:30	S	x	x					x	x	x	x	x					
10	3036-9-B03-3	7/8/24	10:40	S	x	x					x	x	x	x	x					
11	3036-9-B04-1	7/8/24	10:50	S	x	x					x	x	x	x	x					
12	3036-9-B04-2	7/8/24	11:00	S	x	x					x	x	x	x	x					

Relinquished by	Date/Time 7/9/24	Received by R. Neal	Date/Time 7/9/24 0950
Relinquished by R. Neal	Date/Time 7/9/24 1040	Received by Stephanie Hernandez - ETA-CHI	Date/Time 7/9/24 1040
Relinquished by	Date/Time	Received by	Date/Time

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 – 046A Project No PTB/WO: 184-006/046 TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Sampler: MCO, SK, SM, SR	COC No 2 of 3 Lab Job No : 500-202098 Sample Temp

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal

** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter

*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
13	3036-9-B04-2	7/8/24	11:10	S	X	X					X	X	X	X	X					
14	3036-9-B04-3	7/8/24	11:20	S	X	X					X	X	X	X	X					
	3036-9-B05-1	7/8/24	11:30	S	↓	↓					↓	↓	↓	↓	↓					
	3036-9-B05-2	7/8/24	11:40	S																
	3036-9-B05-3	7/8/24	11:50	S																
	3036-9-B06-1	7/8/24	12:00	S																
	3036-9-B06-2	7/8/24	12:10	S																
	3036-9-B07-1	7/8/24	12:20	S																
	3036-9-B07-2	7/8/24	12:30	S																
	3036-9-B08-1	7/8/24	12:35	S																
	3036-9-B08-2	7/8/24	12:40	S																
	3036-9-B08-2Dup	7/8/24	12:45	S	↓	↓					↓	↓	↓	↓	↓					

Relinquished by	Date/Time 7/9/24	Received by	Date/Time 7/9/24 0930
Relinquished by	Date/Time 7/9/24 1040	Received by Stephanie Hernandez ETA-CHI	Date/Time 7/9/24 1040
Relinquished by	Date/Time	Received by	Date/Time

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202099-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/26/2021 2:56:55 PM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 3036-9-B05-1
Date Collected: 07/08/21 11:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-1
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Bromomethane	<0.0043	*+	0.0043	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Chloroethane	<0.0043	*+	0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Methylene Chloride	**0.0017**	**J**	0.0043	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Trichloroethene	**0.0014**	**J**	0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*	*07/09/21 19:11*	*07/15/21 14:43*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*07/09/21 19:11*	*07/15/21 14:43*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*07/09/21 19:11*	*07/15/21 14:43*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*07/09/21 19:11*	*07/15/21 14:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B05-1
Date Collected: 07/08/21 11:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-1
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Hexachlorocyclopentadiene	<0.79	F1 *-	0.79	0.22	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1

Client Sample ID: 3036-9-B05-1
Date Collected: 07/08/21 11:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-1
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	07/20/21 06:33	07/20/21 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*31 - 143*	*07/20/21 06:33*	*07/20/21 17:11*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*07/20/21 06:33*	*07/20/21 17:11*	*1*
2-Fluorophenol	*101*		*31 - 166*	*07/20/21 06:33*	*07/20/21 17:11*	*1*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*	*07/20/21 06:33*	*07/20/21 17:11*	*1*
Phenol-d5	*101*		*30 - 153*	*07/20/21 06:33*	*07/20/21 17:11*	*1*
Terphenyl-d14 (Surr)	*105*		*42 - 157*	*07/20/21 06:33*	*07/20/21 17:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.92**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Arsenic	**5.6**		0.56	0.19	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Barium	**45**		0.56	0.064	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Beryllium	**0.81**		0.22	0.052	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Boron	**14**		2.8	0.26	mg/Kg	☼	07/20/21 17:06	07/26/21 12:06	1
Cadmium	**0.11**		0.11	0.020	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Calcium	**76000**		56	9.5	mg/Kg	☼	07/20/21 17:06	07/23/21 13:20	5
Chromium	**18**		0.56	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Cobalt	**9.4**		0.28	0.073	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Copper	**18**		0.56	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Iron	**17000**	**B**	11	5.8	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Lead	**11**		0.28	0.13	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Magnesium	**30000**		5.6	2.8	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Manganese	**250**	**B**	0.56	0.081	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Nickel	**26**		0.56	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Potassium	**3000**		28	9.9	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Silver	**0.31**		0.28	0.072	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Sodium	**2100**		56	8.3	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Thallium	**1.2**		0.56	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Vanadium	**22**		0.28	0.066	mg/Kg	☼	07/20/21 17:06	07/22/21 18:13	1
Zinc	**49**		1.1	0.49	mg/Kg	☼	07/20/21 17:06	07/23/21 13:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/20/21 17:54	07/22/21 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/20/21 17:54	07/22/21 17:00	1
Chromium	<0.025		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:00	1
Iron	<0.40		0.40	0.20	mg/L		07/20/21 17:54	07/22/21 17:00	1

Client Sample ID: 3036-9-B05-1

Date Collected: 07/08/21 11:30
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-1

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		07/20/21 17:54	07/22/21 17:00	1
Manganese	**0.55**		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:00	1
Nickel	<0.025		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.079**		0.050	0.010	mg/L		07/20/21 18:04	07/22/21 20:40	1
Barium	**0.73**		0.50	0.050	mg/L		07/20/21 18:04	07/22/21 20:40	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		07/20/21 18:04	07/22/21 20:40	1
Boron	**0.30**		0.10	0.050	mg/L		07/20/21 18:04	07/23/21 12:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/20/21 18:04	07/22/21 20:40	1
Calcium	**59**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:40	1
Chromium	**0.21**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:40	1
Cobalt	**0.067**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:40	1
Iron	**200**		0.40	0.20	mg/L		07/20/21 18:04	07/22/21 20:40	1
Lead	**0.11**		0.0075	0.0075	mg/L		07/20/21 18:04	07/22/21 20:40	1
Manganese	**0.78**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:40	1
Nickel	**0.24**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:40	1
Potassium	**42**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:40	1
Selenium	<0.050		0.050	0.020	mg/L		07/20/21 18:04	07/22/21 20:40	1
Silver	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:40	1
Zinc	**0.57**		0.50	0.020	mg/L		07/20/21 18:04	07/22/21 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/20/21 17:54	07/22/21 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/20/21 18:04	07/21/21 18:56	1
Thallium	**0.0048**		0.0020	0.0020	mg/L		07/20/21 18:04	07/21/21 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 09:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**		0.017	0.0057	mg/Kg	☼	07/20/21 13:15	07/21/21 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/21/21 20:05	07/22/21 11:01	1
pH	**8.9**		0.2	0.2	SU			07/14/21 20:45	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B05-2
Date Collected: 07/08/21 11:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-2
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Bromomethane	<0.0040	*+	0.0040	0.0015	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Chloroethane	<0.0040	*+	0.0040	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Trichloroethene	**0.0019**		0.0016	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*07/09/21 19:11*	*07/15/21 15:09*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 131*	*07/09/21 19:11*	*07/15/21 15:09*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*07/09/21 19:11*	*07/15/21 15:09*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*07/09/21 19:11*	*07/15/21 15:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B05-2
Date Collected: 07/08/21 11:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-2
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Benzo[g,h,i]perylene	**0.016**	**J**	0.038	0.012	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Hexachlorocyclopentadiene	<0.78	*-	0.78	0.22	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1

Client Sample ID: 3036-9-B05-2

Date Collected: 07/08/21 11:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-2

Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Phenanthrene	**0.012**	**J**	0.038	0.0054	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1
Pyrene	**0.010**	**J**	0.038	0.0077	mg/Kg	☼	07/20/21 06:33	07/20/21 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*31 - 143*	*07/20/21 06:33*	*07/20/21 17:35*	*1*
2-Fluorobiphenyl	*99*		*43 - 145*	*07/20/21 06:33*	*07/20/21 17:35*	*1*
2-Fluorophenol	*100*		*31 - 166*	*07/20/21 06:33*	*07/20/21 17:35*	*1*
Nitrobenzene-d5 (Surr)	*91*		*37 - 147*	*07/20/21 06:33*	*07/20/21 17:35*	*1*
Phenol-d5	*95*		*30 - 153*	*07/20/21 06:33*	*07/20/21 17:35*	*1*
Terphenyl-d14 (Surr)	*101*		*42 - 157*	*07/20/21 06:33*	*07/20/21 17:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.88**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Arsenic	**12**		0.57	0.20	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Barium	**63**		0.57	0.065	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Beryllium	**0.89**		0.23	0.053	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Boron	**15**		2.9	0.27	mg/Kg	☼	07/20/21 17:06	07/26/21 12:09	1
Cadmium	**0.046**	**J**	0.11	0.021	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Calcium	**61000**		57	9.7	mg/Kg	☼	07/20/21 17:06	07/23/21 13:27	5
Chromium	**18**		0.57	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Cobalt	**17**		0.29	0.075	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Copper	**21**		0.57	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Iron	**21000**	**B**	11	5.9	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Lead	**13**		0.29	0.13	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Magnesium	**26000**		5.7	2.8	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Manganese	**370**	**B**	0.57	0.083	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Nickel	**36**		0.57	0.17	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Potassium	**3300**		29	10	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Silver	**0.34**		0.29	0.074	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Sodium	**720**		57	8.5	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Thallium	**1.2**		0.57	0.29	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Vanadium	**23**		0.29	0.067	mg/Kg	☼	07/20/21 17:06	07/22/21 18:16	1
Zinc	**51**		1.1	0.50	mg/Kg	☼	07/20/21 17:06	07/23/21 13:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/20/21 17:54	07/22/21 17:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/20/21 17:54	07/22/21 17:03	1
Manganese	**1.3**		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:03	1

Client Sample ID: 3036-9-B05-2

Date Collected: 07/08/21 11:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-2

Matrix: Solid
Percent Solids: 85.1

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		07/20/21 18:04	07/22/21 20:43	1
Barium	**0.13**	**J**	0.50	0.050	mg/L		07/20/21 18:04	07/22/21 20:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/20/21 18:04	07/22/21 20:43	1
Boron	**0.32**		0.10	0.050	mg/L		07/20/21 18:04	07/23/21 13:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/20/21 18:04	07/22/21 20:43	1
Calcium	**25**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:43	1
Chromium	**0.046**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:43	1
Cobalt	**0.013**	**J**	0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:43	1
Iron	**35**		0.40	0.20	mg/L		07/20/21 18:04	07/22/21 20:43	1
Lead	**0.022**		0.0075	0.0075	mg/L		07/20/21 18:04	07/22/21 20:43	1
Manganese	**0.18**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:43	1
Nickel	**0.052**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:43	1
Potassium	**14**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:43	1
Selenium	<0.050		0.050	0.020	mg/L		07/20/21 18:04	07/22/21 20:43	1
Silver	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:43	1
Zinc	**0.13**	**J**	0.50	0.020	mg/L		07/20/21 18:04	07/22/21 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/20/21 18:04	07/21/21 18:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/20/21 18:04	07/21/21 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 09:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.018	0.0060	mg/Kg	☼	07/20/21 13:15	07/21/21 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 20:05	07/22/21 11:03	1
pH	**8.1**		0.2	0.2	SU			07/14/21 20:47	1

Client Sample ID: 3036-9-B05-3
Date Collected: 07/08/21 11:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-3
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Acetone	**0.012**	**J**	0.017	0.0073	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Bromomethane	<0.0042	*+	0.0042	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Chloroethane	<0.0042	*+	0.0042	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Trichloroethene	**0.0016**	**J**	0.0017	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/09/21 19:11*	*07/15/21 15:34*	*1*
4-Bromofluorobenzene (Surr)	*114*		*75 - 131*	*07/09/21 19:11*	*07/15/21 15:34*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*07/09/21 19:11*	*07/15/21 15:34*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*07/09/21 19:11*	*07/15/21 15:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1

Client Sample ID: 3036-9-B05-3
Date Collected: 07/08/21 11:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-3
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2-Methylnaphthalene	**0.011**	**J**	0.078	0.0071	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Chrysene	**0.014**	**J**	0.038	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Hexachlorocyclopentadiene	<0.78	*-	0.78	0.22	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B05-3

Date Collected: 07/08/21 11:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-3

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Phenanthrene	**0.034**	**J**	0.038	0.0054	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/20/21 06:33	07/20/21 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*31 - 143*	*07/20/21 06:33*	*07/20/21 18:00*	*1*
2-Fluorobiphenyl	*98*		*43 - 145*	*07/20/21 06:33*	*07/20/21 18:00*	*1*
2-Fluorophenol	*97*		*31 - 166*	*07/20/21 06:33*	*07/20/21 18:00*	*1*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*07/20/21 06:33*	*07/20/21 18:00*	*1*
Phenol-d5	*93*		*30 - 153*	*07/20/21 06:33*	*07/20/21 18:00*	*1*
Terphenyl-d14 (Surr)	*99*		*42 - 157*	*07/20/21 06:33*	*07/20/21 18:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.80**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Arsenic	**6.8**		0.56	0.19	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Barium	**36**		0.56	0.064	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Beryllium	**0.76**		0.23	0.053	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Boron	**14**		2.8	0.26	mg/Kg	☼	07/20/21 17:06	07/26/21 12:12	1
Cadmium	**0.29**		0.11	0.020	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Calcium	**80000**		56	9.5	mg/Kg	☼	07/20/21 17:06	07/23/21 13:34	5
Chromium	**16**		0.56	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Cobalt	**13**		0.28	0.074	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Copper	**21**		0.56	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Iron	**17000**	**B**	11	5.9	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Magnesium	**33000**		5.6	2.8	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Manganese	**350**	**B**	0.56	0.082	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Nickel	**33**		0.56	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Potassium	**3000**		28	10	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Silver	**0.28**		0.28	0.073	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Sodium	**210**		56	8.3	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Thallium	**1.3**		0.56	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Vanadium	**20**		0.28	0.066	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1
Zinc	**93**	**B**	1.1	0.49	mg/Kg	☼	07/20/21 17:06	07/22/21 18:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/20/21 17:54	07/22/21 17:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/20/21 17:54	07/22/21 17:07	1

Client Sample ID: 3036-9-B05-3

Date Collected: 07/08/21 11:50
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-3

Matrix: Solid
Percent Solids: 84.6

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		07/20/21 18:04	07/22/21 20:46	1
Barium	**0.096**	**J**	0.50	0.050	mg/L		07/20/21 18:04	07/22/21 20:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/20/21 18:04	07/22/21 20:46	1
Boron	**0.17**		0.10	0.050	mg/L		07/20/21 18:04	07/23/21 13:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/20/21 18:04	07/22/21 20:46	1
Calcium	**22**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:46	1
Chromium	**0.019**	**J**	0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:46	1
Cobalt	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:46	1
Iron	**9.2**		0.40	0.20	mg/L		07/20/21 18:04	07/22/21 20:46	1
Lead	**0.0085**		0.0075	0.0075	mg/L		07/20/21 18:04	07/22/21 20:46	1
Manganese	**0.14**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:46	1
Nickel	**0.018**	**J**	0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:46	1
Potassium	**7.5**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/20/21 18:04	07/22/21 20:46	1
Silver	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:46	1
Zinc	**0.057**	**J**	0.50	0.020	mg/L		07/20/21 18:04	07/22/21 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/20/21 18:04	07/21/21 19:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/20/21 18:04	07/21/21 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 09:11	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	☼	07/20/21 13:15	07/21/21 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 20:05	07/22/21 11:05	1
pH	**7.9**		0.2	0.2	SU			07/14/21 20:52	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B06-1
Date Collected: 07/08/21 12:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-4
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Bromomethane	<0.0043	*+	0.0043	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Chloroethane	<0.0043	*+	0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Methylene Chloride	**0.0030**	**J**	0.0043	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*07/09/21 19:11*	*07/15/21 15:59*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*07/09/21 19:11*	*07/15/21 15:59*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/09/21 19:11*	*07/15/21 15:59*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*07/09/21 19:11*	*07/15/21 15:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1

Client Sample ID: 3036-9-B06-1
Date Collected: 07/08/21 12:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-4
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Hexachlorocyclopentadiene	<0.76	*-	0.76	0.22	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B06-1
Date Collected: 07/08/21 12:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-4
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/20/21 06:33	07/20/21 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*31 - 143*	*07/20/21 06:33*	*07/20/21 18:24*	*1*
2-Fluorobiphenyl	*97*		*43 - 145*	*07/20/21 06:33*	*07/20/21 18:24*	*1*
2-Fluorophenol	*102*		*31 - 166*	*07/20/21 06:33*	*07/20/21 18:24*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*07/20/21 06:33*	*07/20/21 18:24*	*1*
Phenol-d5	*98*		*30 - 153*	*07/20/21 06:33*	*07/20/21 18:24*	*1*
Terphenyl-d14 (Surr)	*106*		*42 - 157*	*07/20/21 06:33*	*07/20/21 18:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.78**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Arsenic	**8.1**		0.57	0.20	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Barium	**33**		0.57	0.065	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Beryllium	**0.55**		0.23	0.054	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Boron	**9.9**		2.9	0.27	mg/Kg	☼	07/20/21 17:06	07/26/21 12:16	1
Cadmium	**0.15**		0.11	0.021	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Calcium	**91000**		57	9.7	mg/Kg	☼	07/20/21 17:06	07/23/21 13:41	5
Chromium	**11**		0.57	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Cobalt	**11**		0.29	0.075	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Copper	**24**		0.57	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Iron	**22000**		57	30	mg/Kg	☼	07/20/21 17:06	07/23/21 13:41	5
Lead	**14**		0.29	0.13	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Magnesium	**47000**		29	14	mg/Kg	☼	07/20/21 17:06	07/23/21 13:41	5
Manganese	**530**	**B**	0.57	0.083	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Nickel	**28**		0.57	0.17	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Potassium	**1800**		29	10	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Silver	**0.22**	**J**	0.29	0.074	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Sodium	**480**		57	8.5	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Thallium	**1.4**		0.57	0.29	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Vanadium	**15**		0.29	0.068	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	1
Zinc	**44**	**B**	1.1	0.50	mg/Kg	☼	07/20/21 17:06	07/22/21 18:30	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		07/20/21 17:54	07/22/21 17:11	1
Iron	<0.40		0.40	0.20	mg/L		07/20/21 17:54	07/22/21 17:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/20/21 17:54	07/22/21 17:11	1
Manganese	**0.24**		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:11	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B06-1
Date Collected: 07/08/21 12:00
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-4
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.047**	**J**	0.050	0.010	mg/L		07/20/21 18:04	07/22/21 20:49	1
Barium	**0.33**	**J**	0.50	0.050	mg/L		07/20/21 18:04	07/22/21 20:49	1
Beryllium	**0.0047**		0.0040	0.0040	mg/L		07/20/21 18:04	07/22/21 20:49	1
Boron	**0.25**		0.10	0.050	mg/L		07/20/21 18:04	07/23/21 13:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/20/21 18:04	07/22/21 20:49	1
Calcium	**26**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:49	1
Chromium	**0.093**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:49	1
Cobalt	**0.032**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:49	1
Iron	**100**		0.40	0.20	mg/L		07/20/21 18:04	07/22/21 20:49	1
Lead	**0.047**		0.0075	0.0075	mg/L		07/20/21 18:04	07/22/21 20:49	1
Manganese	**0.37**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:49	1
Nickel	**0.11**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:49	1
Potassium	**23**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		07/20/21 18:04	07/22/21 20:49	1
Silver	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:49	1
Zinc	**0.26**	**J**	0.50	0.020	mg/L		07/20/21 18:04	07/22/21 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/20/21 17:54	07/22/21 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/20/21 18:04	07/21/21 19:06	1
Thallium	**0.0039**		0.0020	0.0020	mg/L		07/20/21 18:04	07/21/21 19:06	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		07/21/21 10:35	07/22/21 09:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.018	0.0061	mg/Kg	☼	07/20/21 13:15	07/21/21 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	☼	07/21/21 20:05	07/22/21 11:06	1
pH	**9.0**		0.2	0.2	SU			07/14/21 20:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B06-2
Date Collected: 07/08/21 12:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-5
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Bromomethane	<0.0045	*+	0.0045	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Chloroethane	<0.0045	*+	0.0045	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Trichloroethene	**0.0015**	**J**	0.0018	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*07/09/21 19:11*	*07/15/21 16:25*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*07/09/21 19:11*	*07/15/21 16:25*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*07/09/21 19:11*	*07/15/21 16:25*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*07/09/21 19:11*	*07/15/21 16:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1

Client Sample ID: 3036-9-B06-2
Date Collected: 07/08/21 12:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-5
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Benzo[b]fluoranthene	**0.011**	**J**	0.038	0.0082	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Benzo[g,h,i]perylene	**0.013**	**J**	0.038	0.012	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Hexachlorocyclopentadiene	<0.77	*-	0.77	0.22	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B06-2
Date Collected: 07/08/21 12:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-5
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	07/20/21 06:33	07/20/21 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*31 - 143*	*07/20/21 06:33*	*07/20/21 18:48*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*07/20/21 06:33*	*07/20/21 18:48*	*1*
2-Fluorophenol	*93*		*31 - 166*	*07/20/21 06:33*	*07/20/21 18:48*	*1*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*07/20/21 06:33*	*07/20/21 18:48*	*1*
Phenol-d5	*91*		*30 - 153*	*07/20/21 06:33*	*07/20/21 18:48*	*1*
Terphenyl-d14 (Surr)	*97*		*42 - 157*	*07/20/21 06:33*	*07/20/21 18:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.0**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Arsenic	**10**		0.57	0.20	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Barium	**37**		0.57	0.065	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Beryllium	**0.87**		0.23	0.053	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Boron	**16**		2.9	0.27	mg/Kg	☼	07/20/21 17:06	07/26/21 12:19	1
Cadmium	**0.051**	**J**	0.11	0.021	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Calcium	**70000**		57	9.7	mg/Kg	☼	07/20/21 17:06	07/23/21 13:48	5
Chromium	**19**		0.57	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Cobalt	**12**		0.29	0.075	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Copper	**20**		0.57	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Iron	**19000**	**B**	11	5.9	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Lead	**12**		0.29	0.13	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Magnesium	**27000**		5.7	2.8	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Manganese	**280**	**B**	0.57	0.083	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Nickel	**34**		0.57	0.17	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Potassium	**3400**		29	10	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Selenium	**0.55**	**J**	0.57	0.34	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Silver	**0.36**		0.29	0.074	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Sodium	**310**		57	8.5	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Thallium	**1.2**		0.57	0.29	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Vanadium	**23**		0.29	0.067	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1
Zinc	**57**	**B**	1.1	0.50	mg/Kg	☼	07/20/21 17:06	07/22/21 18:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/20/21 17:54	07/22/21 17:14	1
Iron	<0.40		0.40	0.20	mg/L		07/20/21 17:54	07/22/21 17:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/20/21 17:54	07/22/21 17:14	1
Manganese	**1.5**		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:14	1

Client Sample ID: 3036-9-B06-2

Date Collected: 07/08/21 12:10
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-5

Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.035**	**J**	0.050	0.010	mg/L		07/20/21 18:04	07/22/21 20:52	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		07/20/21 18:04	07/22/21 20:52	1
Beryllium	**0.0043**		0.0040	0.0040	mg/L		07/20/21 18:04	07/22/21 20:52	1
Boron	**0.30**		0.10	0.050	mg/L		07/20/21 18:04	07/23/21 13:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/20/21 18:04	07/22/21 20:52	1
Calcium	**38**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:52	1
Chromium	**0.085**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:52	1
Cobalt	**0.029**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:52	1
Iron	**75**		0.40	0.20	mg/L		07/20/21 18:04	07/22/21 20:52	1
Lead	**0.048**		0.0075	0.0075	mg/L		07/20/21 18:04	07/22/21 20:52	1
Manganese	**0.39**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:52	1
Nickel	**0.10**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:52	1
Potassium	**23**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 20:52	1
Selenium	<0.050		0.050	0.020	mg/L		07/20/21 18:04	07/22/21 20:52	1
Silver	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 20:52	1
Zinc	**0.26**	**J**	0.50	0.020	mg/L		07/20/21 18:04	07/22/21 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/20/21 18:04	07/21/21 19:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/20/21 18:04	07/21/21 19:08	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		07/21/21 10:35	07/22/21 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.019	0.0062	mg/Kg	☼	07/20/21 13:15	07/21/21 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 20:05	07/22/21 11:12	1
pH	**8.2**		0.2	0.2	SU			07/14/21 20:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B08-1
Date Collected: 07/08/21 12:35
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-8
Matrix: Solid
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0025		0.0025	0.00085	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
1,1,2,2-Tetrachloroethane	<0.0025		0.0025	0.00081	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
1,1,2-Trichloroethane	<0.0025		0.0025	0.0011	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
1,1-Dichloroethane	<0.0025		0.0025	0.00087	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
1,1-Dichloroethene	<0.0025		0.0025	0.00087	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
1,2-Dichloroethane	<0.0063		0.0063	0.0020	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
1,2-Dichloropropane	<0.0025		0.0025	0.00065	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
1,3-Dichloropropene, Total	<0.0025		0.0025	0.00089	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
2-Butanone (MEK)	<0.0063		0.0063	0.0028	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
2-Hexanone	<0.0063		0.0063	0.0020	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
4-Methyl-2-pentanone (MIBK)	<0.0063		0.0063	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Acetone	<0.025		0.025	0.011	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Benzene	<0.0025		0.0025	0.00064	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Bromodichloromethane	<0.0025		0.0025	0.00051	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Bromoform	<0.0025		0.0025	0.00074	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Bromomethane	<0.0063	*+	0.0063	0.0024	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Carbon disulfide	<0.0063		0.0063	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Carbon tetrachloride	<0.0025		0.0025	0.00073	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Chlorobenzene	<0.0025		0.0025	0.00093	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Chloroethane	<0.0063	*+	0.0063	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Chloroform	<0.0025		0.0025	0.00088	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Chloromethane	<0.0063		0.0063	0.0025	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
cis-1,2-Dichloroethene	<0.0025		0.0025	0.00071	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
cis-1,3-Dichloropropene	<0.0025		0.0025	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Dibromochloromethane	<0.0025		0.0025	0.00083	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Ethylbenzene	<0.0025		0.0025	0.0012	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Methyl tert-butyl ether	<0.0025		0.0025	0.00074	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Methylene Chloride	<0.0063		0.0063	0.0025	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Styrene	<0.0025		0.0025	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Tetrachloroethene	<0.0025		0.0025	0.00086	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Toluene	<0.0025		0.0025	0.00064	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
trans-1,2-Dichloroethene	<0.0025		0.0025	0.0011	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
trans-1,3-Dichloropropene	<0.0025		0.0025	0.00089	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Trichloroethene	<0.0025		0.0025	0.00085	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Vinyl chloride	<0.0025		0.0025	0.0011	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1
Xylenes, Total	<0.0051		0.0051	0.00081	mg/Kg	☼	07/09/21 19:11	07/15/21 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*07/09/21 19:11*	*07/15/21 17:41*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*07/09/21 19:11*	*07/15/21 17:41*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*07/09/21 19:11*	*07/15/21 17:41*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*07/09/21 19:11*	*07/15/21 17:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1

Client Sample ID: 3036-9-B08-1
Date Collected: 07/08/21 12:35
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-8
Matrix: Solid
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Benzo[a]anthracene	**0.0061**	**J**	0.041	0.0055	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Benzo[a]pyrene	**0.0084**	**J**	0.041	0.0080	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Benzo[b]fluoranthene	**0.010**	**J**	0.041	0.0089	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Fluoranthene	**0.0085**	**J**	0.041	0.0076	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Hexachlorocyclopentadiene	<0.83	*-	0.83	0.24	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1

Client Sample ID: 3036-9-B08-1
Date Collected: 07/08/21 12:35
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-8
Matrix: Solid
Percent Solids: 76.0

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	<0.041		0.041	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Phenanthrene	**0.0090**	**J**	0.041	0.0057	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	07/20/21 06:33	07/20/21 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*31 - 143*	*07/20/21 06:33*	*07/20/21 19:36*	*1*
2-Fluorobiphenyl	*63*		*43 - 145*	*07/20/21 06:33*	*07/20/21 19:36*	*1*
2-Fluorophenol	*81*		*31 - 166*	*07/20/21 06:33*	*07/20/21 19:36*	*1*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*	*07/20/21 06:33*	*07/20/21 19:36*	*1*
Phenol-d5	*83*		*30 - 153*	*07/20/21 06:33*	*07/20/21 19:36*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*07/20/21 06:33*	*07/20/21 19:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J**	1.3	0.25	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Arsenic	**4.4**		0.64	0.22	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Barium	**84**		0.64	0.073	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Beryllium	**0.97**		0.26	0.060	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Boron	**10**		3.2	0.30	mg/Kg	☼	07/20/21 17:06	07/26/21 12:39	1
Cadmium	**0.29**		0.13	0.023	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Calcium	**4300**	**B**	13	2.2	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Chromium	**20**		0.64	0.32	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Cobalt	**7.0**		0.32	0.084	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Copper	**21**		0.64	0.18	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Iron	**18000**	**B**	13	6.7	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Lead	**20**		0.32	0.15	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Magnesium	**3600**		6.4	3.2	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Manganese	**180**	**B**	0.64	0.093	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Nickel	**23**		0.64	0.19	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Potassium	**2000**		32	11	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Selenium	**0.65**		0.64	0.38	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Silver	**0.42**		0.32	0.083	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Sodium	**3100**		64	9.5	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Thallium	**0.74**		0.64	0.32	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Vanadium	**28**		0.32	0.076	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	1
Zinc	**110**	**B**	1.3	0.56	mg/Kg	☼	07/20/21 17:06	07/22/21 18:43	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		07/20/21 17:54	07/22/21 17:25	1
Chromium	<0.025		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:25	1
Iron	<0.40		0.40	0.20	mg/L		07/20/21 17:54	07/22/21 17:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/20/21 17:54	07/22/21 17:25	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B08-1
Date Collected: 07/08/21 12:35
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-8
Matrix: Solid
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.013	J	0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:25	1
Nickel	<0.025		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L		07/20/21 18:04	07/22/21 21:21	1
Barium	0.93		0.50	0.050	mg/L		07/20/21 18:04	07/22/21 21:21	1
Beryllium	0.0098		0.0040	0.0040	mg/L		07/20/21 18:04	07/22/21 21:21	1
Boron	0.29		0.10	0.050	mg/L		07/20/21 18:04	07/23/21 13:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/20/21 18:04	07/22/21 21:21	1
Calcium	33		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 21:21	1
Chromium	0.25		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:21	1
Cobalt	0.049		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:21	1
Iron	210		0.40	0.20	mg/L		07/20/21 18:04	07/22/21 21:21	1
Lead	0.095		0.0075	0.0075	mg/L		07/20/21 18:04	07/22/21 21:21	1
Manganese	0.72		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:21	1
Nickel	0.18		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:21	1
Potassium	27		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 21:21	1
Selenium	<0.050		0.050	0.020	mg/L		07/20/21 18:04	07/22/21 21:21	1
Silver	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:21	1
Zinc	1.0		0.50	0.020	mg/L		07/20/21 18:04	07/22/21 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/20/21 17:54	07/22/21 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/20/21 18:04	07/21/21 19:20	1
Thallium	0.0031		0.0020	0.0020	mg/L		07/20/21 18:04	07/21/21 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 09:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068	F1	0.020	0.0066	mg/Kg	☼	07/20/21 13:15	07/21/21 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20	J F1	0.28	0.14	mg/Kg	☼	07/21/21 20:05	07/22/21 11:17	1
pH	8.1		0.2	0.2	SU			07/14/21 21:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B08-2

Date Collected: 07/08/21 12:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-9

Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Bromomethane	<0.0043	*+	0.0043	0.0016	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Chloroethane	<0.0043	*+	0.0043	0.0013	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Trichloroethene	**0.00089**	**J**	0.0017	0.00058	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/09/21 19:11	07/15/21 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/09/21 19:11*	*07/15/21 18:07*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*07/09/21 19:11*	*07/15/21 18:07*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*07/09/21 19:11*	*07/15/21 18:07*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*07/09/21 19:11*	*07/15/21 18:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1

Client Sample ID: 3036-9-B08-2
Date Collected: 07/08/21 12:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-9
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Benzo[a]anthracene	**0.0086**	**J**	0.039	0.0053	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Benzo[a]pyrene	**0.014**	**J**	0.039	0.0077	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Benzo[b]fluoranthene	**0.020**	**J**	0.039	0.0085	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Fluoranthene	**0.018**	**J**	0.039	0.0073	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Hexachlorocyclopentadiene	<0.80	*-	0.80	0.23	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1

Client Sample ID: 3036-9-B08-2
Date Collected: 07/08/21 12:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-9
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Phenanthrene	**0.011**	**J**	0.039	0.0055	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1
Pyrene	**0.013**	**J**	0.039	0.0079	mg/Kg	☼	07/20/21 06:33	07/20/21 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*31 - 143*	*07/20/21 06:33*	*07/20/21 20:00*	*1*
2-Fluorobiphenyl	*97*		*43 - 145*	*07/20/21 06:33*	*07/20/21 20:00*	*1*
2-Fluorophenol	*100*		*31 - 166*	*07/20/21 06:33*	*07/20/21 20:00*	*1*
Nitrobenzene-d5 (Surr)	*88*		*37 - 147*	*07/20/21 06:33*	*07/20/21 20:00*	*1*
Phenol-d5	*101*		*30 - 153*	*07/20/21 06:33*	*07/20/21 20:00*	*1*
Terphenyl-d14 (Surr)	*105*		*42 - 157*	*07/20/21 06:33*	*07/20/21 20:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.86**	**J**	1.1	0.22	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Arsenic	**6.7**		0.56	0.19	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Barium	**49**		0.56	0.064	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Beryllium	**0.87**		0.23	0.053	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Boron	**15**		2.8	0.26	mg/Kg	☼	07/20/21 17:06	07/26/21 12:42	1
Cadmium	**0.10**	**J**	0.11	0.020	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Calcium	**62000**		56	9.5	mg/Kg	☼	07/20/21 17:06	07/23/21 14:17	5
Chromium	**19**		0.56	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Cobalt	**11**		0.28	0.074	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Copper	**21**		0.56	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Iron	**19000**	**B**	11	5.9	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Magnesium	**23000**		5.6	2.8	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Manganese	**310**	**B**	0.56	0.082	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Nickel	**32**		0.56	0.16	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Potassium	**3300**		28	10	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Silver	**0.38**		0.28	0.073	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Sodium	**560**		56	8.3	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Thallium	**1.1**		0.56	0.28	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Vanadium	**23**		0.28	0.066	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1
Zinc	**57**	**B**	1.1	0.49	mg/Kg	☼	07/20/21 17:06	07/22/21 18:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/20/21 17:54	07/22/21 17:29	1
Iron	<0.40		0.40	0.20	mg/L		07/20/21 17:54	07/22/21 17:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/20/21 17:54	07/22/21 17:29	1
Manganese	**0.70**		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:29	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B08-2
Date Collected: 07/08/21 12:40
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-9
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.042**	**J**	0.050	0.010	mg/L		07/20/21 18:04	07/22/21 21:24	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		07/20/21 18:04	07/22/21 21:24	1
Beryllium	**0.0043**		0.0040	0.0040	mg/L		07/20/21 18:04	07/22/21 21:24	1
Boron	**0.42**		0.10	0.050	mg/L		07/20/21 18:04	07/23/21 13:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/20/21 18:04	07/22/21 21:24	1
Calcium	**31**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 21:24	1
Chromium	**0.091**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:24	1
Cobalt	**0.031**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:24	1
Iron	**89**		0.40	0.20	mg/L		07/20/21 18:04	07/22/21 21:24	1
Lead	**0.054**		0.0075	0.0075	mg/L		07/20/21 18:04	07/22/21 21:24	1
Manganese	**0.44**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:24	1
Nickel	**0.12**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:24	1
Potassium	**17**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 21:24	1
Selenium	<0.050		0.050	0.020	mg/L		07/20/21 18:04	07/22/21 21:24	1
Silver	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:24	1
Zinc	**0.25**	**J**	0.50	0.020	mg/L		07/20/21 18:04	07/22/21 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.0021**		0.0020	0.0020	mg/L		07/20/21 17:54	07/22/21 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/20/21 18:04	07/21/21 19:22	1
Thallium	**0.0026**		0.0020	0.0020	mg/L		07/20/21 18:04	07/21/21 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 09:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.020	0.0065	mg/Kg	☼	07/20/21 13:15	07/21/21 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	☼	07/22/21 11:34	07/22/21 14:19	1
pH	**8.8**		0.2	0.2	SU			07/14/21 21:08	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B08-2 Dup

Date Collected: 07/08/21 12:45
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-10

Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Acetone	**0.0091**	**J**	0.018	0.0080	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Bromomethane	<0.0046	*+	0.0046	0.0017	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Chloroethane	<0.0046	*+	0.0046	0.0014	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	07/09/21 19:11	07/15/21 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*07/09/21 19:11*	*07/15/21 18:32*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*07/09/21 19:11*	*07/15/21 18:32*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*07/09/21 19:11*	*07/15/21 18:32*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*07/09/21 19:11*	*07/15/21 18:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1

Client Sample ID: 3036-9-B08-2 Dup
Date Collected: 07/08/21 12:45
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-10
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Benzo[a]anthracene	**0.040**		0.039	0.0053	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Benzo[a]pyrene	**0.063**		0.039	0.0076	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Benzo[b]fluoranthene	**0.090**		0.039	0.0084	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Benzo[g,h,i]perylene	**0.027**	**J**	0.039	0.013	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Benzo[k]fluoranthene	**0.030**	**J**	0.039	0.012	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Chrysene	**0.052**		0.039	0.011	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Fluoranthene	**0.11**		0.039	0.0072	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Hexachlorocyclopentadiene	<0.79	*-	0.79	0.22	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1

Client Sample ID: 3036-9-B08-2 Dup

Date Collected: 07/08/21 12:45
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-10

Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.032**	**J**	0.039	0.010	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Phenanthrene	**0.049**		0.039	0.0054	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1
Pyrene	**0.080**		0.039	0.0078	mg/Kg	☼	07/20/21 06:33	07/20/21 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*31 - 143*	*07/20/21 06:33*	*07/20/21 20:24*	*1*
2-Fluorobiphenyl	*85*		*43 - 145*	*07/20/21 06:33*	*07/20/21 20:24*	*1*
2-Fluorophenol	*94*		*31 - 166*	*07/20/21 06:33*	*07/20/21 20:24*	*1*
Nitrobenzene-d5 (Surr)	*78*		*37 - 147*	*07/20/21 06:33*	*07/20/21 20:24*	*1*
Phenol-d5	*93*		*30 - 153*	*07/20/21 06:33*	*07/20/21 20:24*	*1*
Terphenyl-d14 (Surr)	*104*		*42 - 157*	*07/20/21 06:33*	*07/20/21 20:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**		1.2	0.24	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Arsenic	**5.2**		0.62	0.21	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Barium	**59**		0.62	0.071	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Beryllium	**0.98**		0.25	0.058	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Boron	**17**		3.1	0.29	mg/Kg	☼	07/20/21 17:06	07/26/21 12:45	1
Cadmium	**0.15**		0.12	0.022	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Calcium	**30000**	**B**	12	2.1	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Chromium	**22**		0.62	0.31	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Cobalt	**17**		0.31	0.081	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Copper	**24**		0.62	0.17	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Iron	**21000**	**B**	12	6.5	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Lead	**22**		0.31	0.14	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Magnesium	**22000**		6.2	3.1	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Manganese	**550**	**B**	0.62	0.090	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Nickel	**41**		0.62	0.18	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Potassium	**3700**		31	11	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Selenium	**0.37**	**J**	0.62	0.36	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Silver	**0.41**		0.31	0.080	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Sodium	**620**		62	9.2	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Thallium	**1.7**		0.62	0.31	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Vanadium	**27**		0.31	0.073	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	1
Zinc	**66**	**B**	1.2	0.54	mg/Kg	☼	07/20/21 17:06	07/22/21 18:49	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		07/20/21 17:54	07/22/21 17:33	1
Chromium	<0.025		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:33	1
Iron	<0.40		0.40	0.20	mg/L		07/20/21 17:54	07/22/21 17:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/20/21 17:54	07/22/21 17:33	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Client Sample ID: 3036-9-B08-2 Dup
Date Collected: 07/08/21 12:45
Date Received: 07/09/21 10:40

Lab Sample ID: 500-202099-10
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.69**		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:33	1
Nickel	<0.025		0.025	0.010	mg/L		07/20/21 17:54	07/22/21 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.039**	**J**	0.050	0.010	mg/L		07/20/21 18:04	07/22/21 21:28	1
Barium	**0.47**	**J**	0.50	0.050	mg/L		07/20/21 18:04	07/22/21 21:28	1
Beryllium	**0.0074**		0.0040	0.0040	mg/L		07/20/21 18:04	07/22/21 21:28	1
Boron	**0.27**		0.10	0.050	mg/L		07/20/21 18:04	07/23/21 13:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/20/21 18:04	07/22/21 21:28	1
Calcium	**24**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 21:28	1
Chromium	**0.17**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:28	1
Cobalt	**0.040**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:28	1
Iron	**150**		0.40	0.20	mg/L		07/20/21 18:04	07/22/21 21:28	1
Lead	**0.080**		0.0075	0.0075	mg/L		07/20/21 18:04	07/22/21 21:28	1
Manganese	**0.55**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:28	1
Nickel	**0.18**		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:28	1
Potassium	**33**		2.5	0.50	mg/L		07/20/21 18:04	07/22/21 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		07/20/21 18:04	07/22/21 21:28	1
Silver	<0.025		0.025	0.010	mg/L		07/20/21 18:04	07/22/21 21:28	1
Zinc	**0.36**	**J**	0.50	0.020	mg/L		07/20/21 18:04	07/22/21 21:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/20/21 17:54	07/22/21 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/20/21 18:04	07/21/21 19:24	1
Thallium	**0.0032**		0.0020	0.0020	mg/L		07/20/21 18:04	07/21/21 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/21/21 10:35	07/22/21 09:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.019	0.0065	mg/Kg	☼	07/20/21 13:15	07/21/21 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.15**	**J**	0.30	0.15	mg/Kg	☼	07/22/21 11:34	07/22/21 14:21	1
pH	**8.7**		0.2	0.2	SU			07/14/21 21:10	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202099-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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 – 046A 500-202099 COC

Project No PTB / WO: 184-066/046

TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other

Sampler: MCO, SK, SM, SR

COC No 2 of 3

Lab Job No.: 500-202099

Sample Temp. 5.3+4.9 2.6+2.2, 3.8+3.4 5.6+5.2

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
	3036-9-B04-2DUP	7/8/24	11:10	S	X	X					X	X	X	X	X					
	3036-9-B04-3	7/8/24	11:20	S	X	X					X	X	X	X	X					
1	3036-9-B05-1	7/8/24	11:30	S																
2	3036-9-B05-2	7/8/24	11:40	S																
3	3036-9-B05-3	7/8/24	11:50	S																
4	3036-9-B06-1	7/8/24	12:00	S																
5	3036-9-B06-2	7/8/24	12:10	S																
6	3036-9-B07-1	7/8/24	12:20	S																
7	3036-9-B07-2	7/8/24	12:30	S																
8	3036-9-B08-1	7/8/24	12:35	S																
9	3036-9-B08-2	7/8/24	12:40	S																
10	3036-9-B08-2DUP	7/8/24	12:45	S	X	X					X	X	X	X	X					

Relinquished by	Date/Time 7/9/24	Received by	Date/Time 7/9/24 0950
Relinquished by	Date/Time 7/9/21 1040	Received by Stephanie Hernandez EIA-CHI	Date/Time 7/9/21 1040
Relinquished by	Date/Time	Received by	Date/Time

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact

Andrews Engineering, Inc
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact Colleen Grey
email cgrey@andrews-eng com

Laboratory

Lab **Test America - Chicago**
Address **2417 Bond Street**
University Park, IL 60484
Phone **708-534-5200**
Contact **Dick Wright**
email richard wright@testamericainc com

Project Name AE7-046A
Project No PTB/WO: 184-006/046
TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler: DKG, SK, SM, SA

COC No 3 of 3
Lab Job No 500-202099
Sample Temp

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal

** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter

*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

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
11	3036-9-B09-1	7/8/21	12:50	S	X	X					X	X	X	X	X					
12	3036-9-B09-2	7/8/21	12:55	S	X	X					X	X	X	X	X					
13	3036-9-B09-3	7/8/21	13:00	S	X	X					X	X	X	X	X					

Relinquished by		Date/Time 7/9/21	Received by	Date/Time 7/9/21 0930
Relinquished by	N. Neal	Date/Time 7/9/21 1040	Received by Stephanie Hernandez ETA-CHI	Date/Time 7/9/21 1040
Relinquished by		Date/Time	Received by	Date/Time

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1096-1106 Evergreen Avenue (northwest quadrant of Northwest Highway and Western Avenue)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04695 (Decimal Degrees) Longitude: -87.89716 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0310635303 BOW: BOA:

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

Estimated Volume of debris (cu. Yd.): 2,211

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.

Project Name: FAU 3512 (US 14) Latitude: 42.04695 Longitude: - 87.89716

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 3036-10-B01, 3036-10-B02 AND 3036-10-B03 WERE SAMPLED ADJACENT TO SITE 3036V-11. SEE TABLE 3g AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-202028-1.

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:

Sep 3, 2021
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 3036V-11
Residential Building

Sample ID	3036-10-B01-1	3036-10-B01-2	3036-10-B02-1	3036-10-B02-2	3036-10-B03-1	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-4.5	4.5-9	0-5	5-10	0-7					
Sample Date	7/7/2021	7/7/2021	7/7/2021	7/7/2021	7/7/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0	0	0	0					
Sample pH	8.1	8	8.4	7.8	7.9					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	3036-10-B03-2	**Maximum Allowable Concentration**				
Sample Depth (ft)	7-14					
Sample Date	7/7/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0					
Sample pH	7.9					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202028-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/22/2021 4:20:06 PM

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

LINKS

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample ID: 3036-10-B01-1
Date Collected: 07/07/21 11:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-1
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Acetone	**0.0088**	**J**	0.017	0.0076	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Chloroethane	<0.0043	*+	0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Trichloroethene	**0.00096**	**J**	0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*07/08/21 19:50*	*07/15/21 15:35*	*1*
4-Bromofluorobenzene (Surr)	*102*	*3*	*75 - 131*	*07/08/21 19:50*	*07/15/21 15:35*	*1*
Dibromofluoromethane	*110*		*75 - 126*	*07/08/21 19:50*	*07/15/21 15:35*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*07/08/21 19:50*	*07/15/21 15:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B01-1
Date Collected: 07/07/21 11:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-1
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Chrysene	**0.011**	**J**	0.037	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B01-1
Date Collected: 07/07/21 11:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-1
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Phenanthrene	**0.014**	**J**	0.037	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1
Pyrene	**0.011**	**J**	0.037	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*31 - 143*	*07/15/21 07:42*	*07/16/21 15:46*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*07/15/21 07:42*	*07/16/21 15:46*	*1*
2-Fluorophenol	*105*		*31 - 166*	*07/15/21 07:42*	*07/16/21 15:46*	*1*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*07/15/21 07:42*	*07/16/21 15:46*	*1*
Phenol-d5	*100*		*30 - 153*	*07/15/21 07:42*	*07/16/21 15:46*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*07/15/21 07:42*	*07/16/21 15:46*	*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	☼	07/19/21 17:15	07/22/21 11:32	1
Arsenic	**5.6**		0.58	0.20	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Barium	**30**		0.58	0.066	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Beryllium	**0.69**		0.23	0.054	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Boron	**10**		2.9	0.27	mg/Kg	☼	07/19/21 17:15	07/22/21 11:32	1
Cadmium	**0.14**		0.12	0.021	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Calcium	**63000**	**B**	58	9.8	mg/Kg	☼	07/19/21 17:15	07/22/21 11:35	5
Chromium	**14**		0.58	0.29	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Cobalt	**11**		0.29	0.076	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Copper	**21**		0.58	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Iron	**14000**		12	6.0	mg/Kg	☼	07/19/21 17:15	07/22/21 11:32	1
Lead	**13**		0.29	0.13	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Magnesium	**32000**	**B**	5.8	2.9	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Manganese	**420**	**B**	0.58	0.084	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Nickel	**27**		0.58	0.17	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Potassium	**2400**		29	10	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Selenium	**0.40**	**J**	0.58	0.34	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Silver	**0.18**	**J**	0.29	0.075	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Sodium	**160**		58	8.6	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Thallium	**1.4**		0.58	0.29	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Vanadium	**16**		0.29	0.069	mg/Kg	☼	07/19/21 17:15	07/20/21 20:12	1
Zinc	**50**		1.2	0.51	mg/Kg	☼	07/19/21 17:15	07/22/21 11:32	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		07/15/21 16:45	07/19/21 18:51	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:51	1
Boron	<0.10		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:51	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B01-1
Date Collected: 07/07/21 11:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-1
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:51	1
Calcium	**17**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:51	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:51	1
Iron	**0.24**	**J**	0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:51	1
Manganese	**0.035**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:51	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:51	1
Potassium	**1.3**	**J**	2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:51	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:51	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 18:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.018	0.0059	mg/Kg	☼	07/19/21 14:35	07/20/21 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 16:01	07/21/21 18:08	1
pH	**8.1**		0.2	0.2	SU			07/13/21 19:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B01-2
Date Collected: 07/07/21 11:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-2
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00052	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Chloroethane	<0.0041	*+	0.0041	0.0012	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Trichloroethene	**0.00066**	**J**	0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	07/08/21 19:50	07/15/21 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*07/08/21 19:50*	*07/15/21 16:00*	*1*
4-Bromofluorobenzene (Surr)	*116*	*3*	*75 - 131*	*07/08/21 19:50*	*07/15/21 16:00*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*07/08/21 19:50*	*07/15/21 16:00*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*07/08/21 19:50*	*07/15/21 16:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B01-2
Date Collected: 07/07/21 11:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-2
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1

Client Sample ID: 3036-10-B01-2
Date Collected: 07/07/21 11:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-2
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*31 - 143*	*07/15/21 07:42*	*07/16/21 15:00*	*1*
2-Fluorobiphenyl	*78*		*43 - 145*	*07/15/21 07:42*	*07/16/21 15:00*	*1*
2-Fluorophenol	*103*		*31 - 166*	*07/15/21 07:42*	*07/16/21 15:00*	*1*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*07/15/21 07:42*	*07/16/21 15:00*	*1*
Phenol-d5	*98*		*30 - 153*	*07/15/21 07:42*	*07/16/21 15:00*	*1*
Terphenyl-d14 (Surr)	*99*		*42 - 157*	*07/15/21 07:42*	*07/16/21 15:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	07/19/21 17:15	07/22/21 11:39	1
Arsenic	**7.1**		0.57	0.19	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Barium	**16**		0.57	0.064	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Beryllium	**0.47**		0.23	0.053	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Boron	**5.8**		2.8	0.26	mg/Kg	☼	07/19/21 17:15	07/22/21 11:39	1
Cadmium	**0.062**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Calcium	**93000**	**B**	57	9.6	mg/Kg	☼	07/19/21 17:15	07/22/21 11:43	5
Chromium	**8.2**		0.57	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Cobalt	**8.8**		0.28	0.074	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Copper	**19**		0.57	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Iron	**16000**		57	29	mg/Kg	☼	07/19/21 17:15	07/22/21 11:43	5
Lead	**12**		0.28	0.13	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Magnesium	**51000**		28	14	mg/Kg	☼	07/19/21 17:15	07/22/21 11:43	5
Manganese	**600**	**B**	0.57	0.082	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Nickel	**20**		0.57	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Potassium	**1300**		28	10	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Selenium	**0.36**	**J**	0.57	0.33	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Silver	**0.12**	**J**	0.28	0.073	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Sodium	**160**		57	8.4	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Thallium	**1.7**		0.57	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Vanadium	**11**		0.28	0.067	mg/Kg	☼	07/19/21 17:15	07/20/21 20:22	1
Zinc	**33**		1.1	0.50	mg/Kg	☼	07/19/21 17:15	07/22/21 11:39	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		07/15/21 16:45	07/19/21 18:55	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 18:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 18:55	1
Boron	<0.10		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 18:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B01-2
Date Collected: 07/07/21 11:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-2
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 18:55	1
Calcium	**17**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:55	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:55	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:55	1
Iron	**0.27**	**J**	0.40	0.20	mg/L		07/15/21 16:45	07/19/21 18:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 18:55	1
Manganese	**0.030**		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:55	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:55	1
Potassium	**0.96**	**J**	2.5	0.50	mg/L		07/15/21 16:45	07/19/21 18:55	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 18:55	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 18:55	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 18:55	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		07/15/21 16:45	07/16/21 18:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:16	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		07/16/21 10:10	07/19/21 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.019	0.0065	mg/Kg	☼	07/19/21 14:35	07/20/21 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:09	1
pH	**8.0**		0.2	0.2	SU			07/13/21 19:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B02-1
Date Collected: 07/07/21 11:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-3
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Trichloroethene	**0.00091**	**J**	0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	07/08/21 19:50	07/18/21 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*07/08/21 19:50*	*07/18/21 21:33*	*1*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*	*07/08/21 19:50*	*07/18/21 21:33*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*07/08/21 19:50*	*07/18/21 21:33*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/18/21 21:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B02-1
Date Collected: 07/07/21 11:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-3
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B02-1
Date Collected: 07/07/21 11:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-3
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Phenanthrene	**0.012**	**J**	0.040	0.0056	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	07/15/21 07:42	07/16/21 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*61*		*31 - 143*	*07/15/21 07:42*	*07/16/21 15:23*	*1*
2-Fluorobiphenyl	*73*		*43 - 145*	*07/15/21 07:42*	*07/16/21 15:23*	*1*
2-Fluorophenol	*98*		*31 - 166*	*07/15/21 07:42*	*07/16/21 15:23*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*07/15/21 07:42*	*07/16/21 15:23*	*1*
Phenol-d5	*97*		*30 - 153*	*07/15/21 07:42*	*07/16/21 15:23*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*07/15/21 07:42*	*07/16/21 15:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.33**	**J B**	1.2	0.23	mg/Kg	☼	07/19/21 17:15	07/22/21 11:46	1
Arsenic	**3.9**		0.59	0.20	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Barium	**33**		0.59	0.067	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Beryllium	**1.0**		0.23	0.055	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Boron	**16**		2.9	0.27	mg/Kg	☼	07/19/21 17:15	07/22/21 11:46	1
Cadmium	**0.029**	**J**	0.12	0.021	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Calcium	**62000**	**B**	59	10	mg/Kg	☼	07/19/21 17:15	07/22/21 11:50	5
Chromium	**23**		0.59	0.29	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Cobalt	**13**		0.29	0.077	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Copper	**15**		0.59	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Iron	**18000**		12	6.1	mg/Kg	☼	07/19/21 17:15	07/22/21 11:46	1
Lead	**10**		0.29	0.14	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Magnesium	**24000**	**B**	5.9	2.9	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Manganese	**340**	**B**	0.59	0.085	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Nickel	**35**		0.59	0.17	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Potassium	**4000**		29	10	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Silver	**0.28**	**J**	0.29	0.076	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Sodium	**840**		59	8.7	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Thallium	**1.3**		0.59	0.29	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Vanadium	**25**		0.29	0.069	mg/Kg	☼	07/19/21 17:15	07/20/21 20:25	1
Zinc	**46**		1.2	0.52	mg/Kg	☼	07/19/21 17:15	07/22/21 11:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 18:53	07/19/21 21:48	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 21:48	1
Iron	<0.40		0.40	0.20	mg/L		07/15/21 18:53	07/19/21 21:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 18:53	07/19/21 21:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B02-1
Date Collected: 07/07/21 11:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-3
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.2		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 21:48	1
Nickel	0.035		0.025	0.010	mg/L		07/15/21 18:53	07/19/21 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L		07/15/21 16:45	07/19/21 19:05	1
Barium	0.71		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 19:05	1
Beryllium	0.010		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 19:05	1
Boron	0.29		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 19:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 19:05	1
Calcium	120		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 19:05	1
Chromium	0.21		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:05	1
Cobalt	0.10		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:05	1
Iron	160		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 19:05	1
Lead	0.083		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 19:05	1
Manganese	1.7		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:05	1
Nickel	0.26		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:05	1
Potassium	50		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 19:05	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 19:05	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:05	1
Zinc	0.36	J ^2	0.50	0.020	mg/L		07/15/21 16:45	07/19/21 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 18:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0066	mg/Kg	☼	07/19/21 14:35	07/20/21 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.14	mg/Kg	☼	07/21/21 16:01	07/21/21 18:11	1
pH	8.4		0.2	0.2	SU			07/13/21 19:51	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B02-2
Date Collected: 07/07/21 11:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-4
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
1,1,2,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00050	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Chloroethane	<0.0039	*+	0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Trichloroethene	**0.00057**	**J**	0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1
Xylenes, Total	<0.0032		0.0032	0.00050	mg/Kg	☼	07/08/21 19:50	07/15/21 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*07/08/21 19:50*	*07/15/21 16:51*	*1*
4-Bromofluorobenzene (Surr)	*112*	*3*	*75 - 131*	*07/08/21 19:50*	*07/15/21 16:51*	*1*
Dibromofluoromethane	*111*		*75 - 126*	*07/08/21 19:50*	*07/15/21 16:51*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*07/08/21 19:50*	*07/15/21 16:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B02-2
Date Collected: 07/07/21 11:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-4
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Chrysene	**0.021**	**J**	0.037	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B02-2
Date Collected: 07/07/21 11:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-4
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Phenanthrene	**0.021**	**J**	0.037	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1
Pyrene	**0.019**	**J**	0.037	0.0075	mg/Kg	☼	07/15/21 07:42	07/16/21 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*31 - 143*	*07/15/21 07:42*	*07/16/21 16:08*	*1*
2-Fluorobiphenyl	*86*		*43 - 145*	*07/15/21 07:42*	*07/16/21 16:08*	*1*
2-Fluorophenol	*112*		*31 - 166*	*07/15/21 07:42*	*07/16/21 16:08*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*07/15/21 07:42*	*07/16/21 16:08*	*1*
Phenol-d5	*97*		*30 - 153*	*07/15/21 07:42*	*07/16/21 16:08*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*07/15/21 07:42*	*07/16/21 16:08*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	07/19/21 17:15	07/22/21 11:53	1
Arsenic	**7.6**		0.56	0.19	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Barium	**16**		0.56	0.063	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Beryllium	**0.55**		0.22	0.052	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Boron	**6.5**		2.8	0.26	mg/Kg	☼	07/19/21 17:15	07/22/21 11:53	1
Cadmium	**0.10**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Calcium	**83000**	**B**	56	9.4	mg/Kg	☼	07/19/21 17:15	07/22/21 11:57	5
Chromium	**9.4**		0.56	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Cobalt	**10**		0.28	0.073	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Copper	**20**		0.56	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Iron	**18000**		56	29	mg/Kg	☼	07/19/21 17:15	07/22/21 11:57	5
Lead	**13**		0.28	0.13	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Magnesium	**45000**		28	14	mg/Kg	☼	07/19/21 17:15	07/22/21 11:57	5
Manganese	**530**	**B**	0.56	0.081	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Nickel	**24**		0.56	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Potassium	**1600**		28	9.9	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Selenium	**0.38**	**J**	0.56	0.33	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Silver	**0.16**	**J**	0.28	0.072	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Sodium	**160**		56	8.2	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Thallium	**1.6**		0.56	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Vanadium	**12**		0.28	0.066	mg/Kg	☼	07/19/21 17:15	07/20/21 20:28	1
Zinc	**37**		1.1	0.49	mg/Kg	☼	07/19/21 17:15	07/22/21 11:53	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		07/15/21 16:45	07/19/21 19:08	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 19:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 19:08	1
Boron	<0.10		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 19:08	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B02-2
Date Collected: 07/07/21 11:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-4
Matrix: Solid
Percent Solids: 86.7

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		07/15/21 16:45	07/19/21 19:08	1
Calcium	**17**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 19:08	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:08	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:08	1
Iron	**0.21**	**J**	0.40	0.20	mg/L		07/15/21 16:45	07/19/21 19:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 19:08	1
Manganese	**0.020**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:08	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:08	1
Potassium	**1.0**	**J**	2.5	0.50	mg/L		07/15/21 16:45	07/19/21 19:08	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 19:08	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:08	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 19:08	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		07/15/21 16:45	07/16/21 18:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.018	0.0060	mg/Kg	☼	07/19/21 14:35	07/20/21 08:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:13	1
pH	**7.8**		0.2	0.2	SU			07/13/21 19:56	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B03-1
Date Collected: 07/07/21 10:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-5
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Chloroethane	<0.0043	*+	0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*07/08/21 19:50*	*07/15/21 17:16*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*	*07/08/21 19:50*	*07/15/21 17:16*	*1*
Dibromofluoromethane	*111*		*75 - 126*	*07/08/21 19:50*	*07/15/21 17:16*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*07/08/21 19:50*	*07/15/21 17:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1

Client Sample ID: 3036-10-B03-1
Date Collected: 07/07/21 10:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-5
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2-Methylnaphthalene	**0.012**	**J**	0.075	0.0069	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Benzo[g,h,i]perylene	**0.017**	**J**	0.037	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Chrysene	**0.015**	**J**	0.037	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Fluoranthene	**0.0084**	**J**	0.037	0.0069	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1

Client Sample ID: 3036-10-B03-1
Date Collected: 07/07/21 10:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-5
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Phenanthrene	**0.038**		0.037	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1
Pyrene	**0.016**	**J**	0.037	0.0074	mg/Kg	☼	07/15/21 07:42	07/16/21 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*31 - 143*	*07/15/21 07:42*	*07/16/21 16:31*	*1*
2-Fluorobiphenyl	*77*		*43 - 145*	*07/15/21 07:42*	*07/16/21 16:31*	*1*
2-Fluorophenol	*101*		*31 - 166*	*07/15/21 07:42*	*07/16/21 16:31*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*07/15/21 07:42*	*07/16/21 16:31*	*1*
Phenol-d5	*100*		*30 - 153*	*07/15/21 07:42*	*07/16/21 16:31*	*1*
Terphenyl-d14 (Surr)	*99*		*42 - 157*	*07/15/21 07:42*	*07/16/21 16:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	07/19/21 17:15	07/22/21 12:00	1
Arsenic	**5.1**		0.57	0.20	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Barium	**39**		0.57	0.065	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Beryllium	**0.96**		0.23	0.053	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Boron	**14**		2.9	0.27	mg/Kg	☼	07/19/21 17:15	07/22/21 12:00	1
Cadmium	**0.066**	**J**	0.11	0.021	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Calcium	**60000**	**B**	57	9.7	mg/Kg	☼	07/19/21 17:15	07/22/21 12:04	5
Chromium	**21**		0.57	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Cobalt	**14**		0.29	0.075	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Copper	**18**		0.57	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Iron	**17000**		11	6.0	mg/Kg	☼	07/19/21 17:15	07/22/21 12:00	1
Lead	**12**		0.29	0.13	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Magnesium	**26000**	**B**	5.7	2.8	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Manganese	**340**	**B**	0.57	0.083	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Nickel	**36**		0.57	0.17	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Potassium	**3500**		29	10	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Silver	**0.23**	**J**	0.29	0.074	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Sodium	**840**		57	8.5	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Thallium	**1.5**		0.57	0.29	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Vanadium	**22**		0.29	0.068	mg/Kg	☼	07/19/21 17:15	07/20/21 20:32	1
Zinc	**52**		1.1	0.50	mg/Kg	☼	07/19/21 17:15	07/22/21 12:00	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		07/15/21 16:45	07/19/21 19:11	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 19:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 19:11	1
Boron	<0.10		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 19:11	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B03-1
Date Collected: 07/07/21 10:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-5
Matrix: Solid
Percent Solids: 83.8

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		07/15/21 16:45	07/19/21 19:11	1
Calcium	**12**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 19:11	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:11	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:11	1
Iron	**2.4**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 19:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 19:11	1
Manganese	**0.021**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:11	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:11	1
Potassium	**3.0**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 19:11	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 19:11	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:11	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 18:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.019	0.0062	mg/Kg	☼	07/19/21 14:35	07/20/21 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:15	1
pH	**7.9**		0.2	0.2	SU			07/13/21 19:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B03-2
Date Collected: 07/07/21 10:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-6
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
1,1-Dichloroethene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Acetone	**0.0094**	**J**	0.018	0.0081	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Carbon tetrachloride	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Chloroethane	<0.0046	*+	0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Trichloroethene	**0.00087**	**J**	0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	07/08/21 19:50	07/15/21 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*07/08/21 19:50*	*07/15/21 17:42*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*07/08/21 19:50*	*07/15/21 17:42*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*07/08/21 19:50*	*07/15/21 17:42*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/15/21 17:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1

Client Sample ID: 3036-10-B03-2
Date Collected: 07/07/21 10:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-6
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2-Methylnaphthalene	**0.015**	**J**	0.080	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B03-2
Date Collected: 07/07/21 10:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-6
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Phenanthrene	**0.023**	**J**	0.039	0.0055	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1
Pyrene	**0.0080**	**J**	0.039	0.0078	mg/Kg	☼	07/15/21 07:42	07/16/21 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*31 - 143*	*07/15/21 07:42*	*07/16/21 14:37*	*1*
2-Fluorobiphenyl	*74*		*43 - 145*	*07/15/21 07:42*	*07/16/21 14:37*	*1*
2-Fluorophenol	*96*		*31 - 166*	*07/15/21 07:42*	*07/16/21 14:37*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*07/15/21 07:42*	*07/16/21 14:37*	*1*
Phenol-d5	*94*		*30 - 153*	*07/15/21 07:42*	*07/16/21 14:37*	*1*
Terphenyl-d14 (Surr)	*97*		*42 - 157*	*07/15/21 07:42*	*07/16/21 14:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.45**	**J B**	1.2	0.23	mg/Kg	☼	07/19/21 17:15	07/22/21 12:15	1
Arsenic	**4.4**		0.58	0.20	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Barium	**60**		0.58	0.066	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Beryllium	**1.1**		0.23	0.054	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Boron	**16**		2.9	0.27	mg/Kg	☼	07/19/21 17:15	07/22/21 12:15	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Calcium	**57000**	**B**	58	9.9	mg/Kg	☼	07/19/21 17:15	07/22/21 12:18	5
Chromium	**23**		0.58	0.29	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Cobalt	**13**		0.29	0.076	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Copper	**15**		0.58	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Iron	**19000**		12	6.1	mg/Kg	☼	07/19/21 17:15	07/22/21 12:15	1
Lead	**9.9**		0.29	0.13	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Magnesium	**23000**	**B**	5.8	2.9	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Manganese	**320**	**B**	0.58	0.084	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Nickel	**35**		0.58	0.17	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Potassium	**4100**		29	10	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Silver	**0.26**	**J**	0.29	0.075	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Sodium	**340**		58	8.6	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Thallium	**1.4**		0.58	0.29	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Vanadium	**26**		0.29	0.069	mg/Kg	☼	07/19/21 17:15	07/20/21 20:35	1
Zinc	**48**		1.2	0.51	mg/Kg	☼	07/19/21 17:15	07/22/21 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/15/21 16:45	07/19/21 19:14	1
Barium	<0.50		0.50	0.050	mg/L		07/15/21 16:45	07/19/21 19:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/15/21 16:45	07/19/21 19:14	1
Boron	<0.10		0.10	0.050	mg/L		07/15/21 16:45	07/19/21 19:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Client Sample ID: 3036-10-B03-2
Date Collected: 07/07/21 10:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202028-6
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/15/21 16:45	07/19/21 19:14	1
Calcium	**15**		2.5	0.50	mg/L		07/15/21 16:45	07/19/21 19:14	1
Chromium	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:14	1
Cobalt	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:14	1
Iron	**0.43**		0.40	0.20	mg/L		07/15/21 16:45	07/19/21 19:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/15/21 16:45	07/19/21 19:14	1
Manganese	**0.016**	**J**	0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:14	1
Nickel	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:14	1
Potassium	**1.8**	**J**	2.5	0.50	mg/L		07/15/21 16:45	07/19/21 19:14	1
Selenium	<0.050		0.050	0.020	mg/L		07/15/21 16:45	07/19/21 19:14	1
Silver	<0.025		0.025	0.010	mg/L		07/15/21 16:45	07/19/21 19:14	1
Zinc	<0.50		0.50	0.020	mg/L		07/15/21 16:45	07/19/21 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/15/21 16:45	07/16/21 18:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/15/21 16:45	07/16/21 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/16/21 10:10	07/19/21 10:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.018	0.0061	mg/Kg	☼	07/19/21 14:35	07/20/21 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.15	mg/Kg	☼	07/21/21 16:01	07/21/21 18:20	1
pH	**7.9**		0.2	0.2	SU			07/13/21 20:01	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Qualifiers

GC/MS 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.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202028-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

500-202028 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 – 046 Project No PTB / WO: 184-006 / 046 TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** PKU, AAB, SK

COC No 1 of 1

Lab Job No 500-202028

Sample Temp 2.5+2.1, 2.3

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	3036-10-B01-1	7/7/21	11:20	S	x	x					x	x	x	x	x					
2	3036-10-B01-2	7/7/21	11:30	S	x	x					x	x	x	x	x					
3	3036-10-B02-1	7/7/21	11:00	S	x	x					x	x	x	x	x					
4	3036-10-B02-2	7/7/21	11:10	S	x	x					x	x	x	x	x					
5	3036-10-B03-1	7/7/21	10:40	S	x	x					x	x	x	x	x					
6	3036-10-B03-2	7/7/21	10:50	S	x	x					x	x	x	x	x					

Relinquished by	Date/Time 7/8/21 0943	Received by	Date/Time 7/8/21 0943
Relinquished by K. Neal	Date/Time 7/8/21 1057	Received by Stephanie Hernandez ETA-CHI	Date/Time 7/8/21 1057
Relinquished by	Date/Time	Received by	Date/Time

Illinois Environmental Protection Agency

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Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
390 Western Avenue (northwest quadrant of Northwest Highway and Western Avenue)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04625 (Decimal Degrees) Longitude: -87.89636 (-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.): 3,211

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 3036-11-B01, 3036-11-B02 AND 3036-11-B03 WERE SAMPLED ADJACENT TO SITE 3036V-12. SEE TABLE 3h AND FIGURES 3 AND 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-202029-1.

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:

Sep 3, 2021
Date:

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

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 3036V-12
Residential Building

Sample ID	3036-11-B01-1	3036-11-B01-2	3036-11-B01-2 DUP	3036-11-B01-3	3036-11-B02-1	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-5	5-10	5-10	10-16	0-6					
Sample Date	7/7/2021	7/7/2021	7/7/2021	7/7/2021	7/7/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0	0	0	0					
Sample pH	8.1	8.1	8.1	8	8.9					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	3036-11-B02-2	3036-11-B02-3	3036-11-B03-1	3036-11-B03-2	3036-11-B03-3	**Maximum Allowable Concentration**				
Sample Depth (ft)	6-12	12-18	0-6	6-12	12-18					
Sample Date	7/7/2021	7/7/2021	7/7/2021	7/7/2021	7/7/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0	0	0	0					
Sample pH	7.9	8.2	8.1	8.1	8.2					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202029-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/23/2021 4:46:55 PM

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

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-1
Date Collected: 07/07/21 10:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-1
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Trichloroethene	**0.00071**	**J**	0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*07/08/21 19:50*	*07/14/21 13:06*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*07/08/21 19:50*	*07/14/21 13:06*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*07/08/21 19:50*	*07/14/21 13:06*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*07/08/21 19:50*	*07/14/21 13:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1

Client Sample ID: 3036-11-B01-1
Date Collected: 07/07/21 10:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-1
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2-Methylnaphthalene	**0.026**	**J**	0.074	0.0067	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Chrysene	**0.016**	**J**	0.036	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1

Client Sample ID: 3036-11-B01-1

Date Collected: 07/07/21 10:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-1

Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Phenanthrene	**0.043**		0.036	0.0051	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1
Pyrene	**0.011**	**J**	0.036	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*31 - 143*	*07/19/21 06:26*	*07/19/21 17:17*	*1*
2-Fluorobiphenyl	*86*		*43 - 145*	*07/19/21 06:26*	*07/19/21 17:17*	*1*
2-Fluorophenol	*113*		*31 - 166*	*07/19/21 06:26*	*07/19/21 17:17*	*1*
Nitrobenzene-d5 (Surr)	*81*		*37 - 147*	*07/19/21 06:26*	*07/19/21 17:17*	*1*
Phenol-d5	*114*		*30 - 153*	*07/19/21 06:26*	*07/19/21 17:17*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*07/19/21 06:26*	*07/19/21 17:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.47**	**J F1**	1.1	0.22	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Arsenic	**3.9**		0.55	0.19	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Barium	**31**		0.55	0.063	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Beryllium	**0.57**		0.22	0.052	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Boron	**12**		2.8	0.26	mg/Kg	☼	07/19/21 09:07	07/22/21 22:48	1
Cadmium	**0.085**	**J B**	0.11	0.020	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Calcium	**70000**	**B**	55	9.4	mg/Kg	☼	07/19/21 09:07	07/22/21 22:51	5
Chromium	**18**		0.55	0.27	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Cobalt	**11**		0.28	0.072	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Copper	**21**	**F1**	0.55	0.15	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Iron	**17000**		11	5.8	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/19/21 09:07	07/22/21 22:48	1
Magnesium	**29000**		5.5	2.7	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Manganese	**300**		0.55	0.080	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Nickel	**32**		0.55	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Potassium	**2900**		28	9.8	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Selenium	<0.55	F1	0.55	0.33	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Silver	**0.14**	**J B**	0.28	0.071	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Sodium	**1000**	**B**	55	8.2	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Vanadium	**22**		0.28	0.065	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	1
Zinc	**57**		1.1	0.49	mg/Kg	☼	07/19/21 09:07	07/21/21 20:20	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		07/16/21 18:25	07/19/21 17:06	1
Chromium	<0.025		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:06	1
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:06	1

Client Sample ID: 3036-11-B01-1
Date Collected: 07/07/21 10:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-1
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.3**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:06	1
Nickel	**0.037**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.024**	**J**	0.050	0.010	mg/L		07/16/21 18:32	07/19/21 19:25	1
Barium	**0.41**	**J**	0.50	0.050	mg/L		07/16/21 18:32	07/19/21 19:25	1
Beryllium	**0.0077**		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 19:25	1
Boron	**0.23**		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 19:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 19:25	1
Calcium	**70**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:25	1
Chromium	**0.16**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:25	1
Cobalt	**0.060**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:25	1
Iron	**100**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 19:25	1
Lead	**0.078**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 19:25	1
Manganese	**0.72**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:25	1
Nickel	**0.19**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:25	1
Potassium	**39**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:25	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 19:25	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:25	1
Zinc	**0.28**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/16/21 18:25	07/22/21 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:21	1
Thallium	**0.0023**		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:21	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		07/19/21 10:05	07/20/21 08:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.019	0.0063	mg/Kg	☼	07/19/21 14:35	07/20/21 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:22	1
pH	**8.1**		0.2	0.2	SU			07/13/21 20:37	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-2
Date Collected: 07/07/21 10:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-2
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	<0.0016		0.0016	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
1,1-Dichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0011	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Ethylbenzene	<0.0016		0.0016	0.00074	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Trichloroethene	**0.0010**	**J**	0.0016	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*07/08/21 19:50*	*07/14/21 13:31*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*07/08/21 19:50*	*07/14/21 13:31*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*07/08/21 19:50*	*07/14/21 13:31*	*1*
Toluene-d8 (Surr)	*105*		*75 - 124*	*07/08/21 19:50*	*07/14/21 13:31*	*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	☼	07/19/21 06:26	07/19/21 17:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1

Client Sample ID: 3036-11-B01-2
Date Collected: 07/07/21 10:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-2
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	0.085	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2-Methylnaphthalene	**0.026**	**J**	0.075	0.0068	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Benzo[g,h,i]perylene	**0.012**	**J**	0.037	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Chrysene	**0.011**	**J**	0.037	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-2
Date Collected: 07/07/21 10:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-2
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		0.037	0.0096	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Phenanthrene	**0.040**		0.037	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1
Pyrene	**0.013**	**J**	0.037	0.0074	mg/Kg	☼	07/19/21 06:26	07/19/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*58*		*31 - 143*	*07/19/21 06:26*	*07/19/21 17:38*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*07/19/21 06:26*	*07/19/21 17:38*	*1*
2-Fluorophenol	*105*		*31 - 166*	*07/19/21 06:26*	*07/19/21 17:38*	*1*
Nitrobenzene-d5 (Surr)	*81*		*37 - 147*	*07/19/21 06:26*	*07/19/21 17:38*	*1*
Phenol-d5	*103*		*30 - 153*	*07/19/21 06:26*	*07/19/21 17:38*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*07/19/21 06:26*	*07/19/21 17:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.47**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Arsenic	**4.6**		0.56	0.19	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Barium	**35**		0.56	0.064	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Beryllium	**0.58**		0.22	0.052	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Boron	**12**		2.8	0.26	mg/Kg	☼	07/19/21 09:07	07/23/21 11:27	1
Cadmium	**0.049**	**J B**	0.11	0.020	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Calcium	**70000**	**B**	56	9.4	mg/Kg	☼	07/19/21 09:07	07/22/21 23:30	5
Chromium	**18**		0.56	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Cobalt	**12**		0.28	0.073	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Copper	**21**		0.56	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Iron	**17000**		11	5.8	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/19/21 09:07	07/22/21 23:27	1
Magnesium	**28000**		5.6	2.8	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Manganese	**350**		0.56	0.081	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Nickel	**32**		0.56	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Potassium	**2900**		28	9.9	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Silver	**0.11**	**J B**	0.28	0.072	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Sodium	**750**	**B**	56	8.2	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Vanadium	**21**		0.28	0.066	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1
Zinc	**50**		1.1	0.49	mg/Kg	☼	07/19/21 09:07	07/21/21 20:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/16/21 18:25	07/19/21 17:09	1
Chromium	<0.025		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:09	1
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:09	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-2
Date Collected: 07/07/21 10:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-2
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.4**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:09	1
Nickel	**0.058**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.018**	**J**	0.050	0.010	mg/L		07/16/21 18:32	07/19/21 19:28	1
Barium	**0.33**	**J**	0.50	0.050	mg/L		07/16/21 18:32	07/19/21 19:28	1
Beryllium	**0.0056**		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 19:28	1
Boron	**0.16**		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 19:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 19:28	1
Calcium	**70**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:28	1
Chromium	**0.12**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:28	1
Cobalt	**0.050**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:28	1
Iron	**69**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 19:28	1
Lead	**0.046**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 19:28	1
Manganese	**0.82**	**F1**	0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:28	1
Nickel	**0.14**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:28	1
Potassium	**31**	**F1**	2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:28	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 19:28	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:28	1
Zinc	**0.17**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:23	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		07/19/21 10:05	07/20/21 08:34	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	☼	07/19/21 14:35	07/20/21 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:23	1
pH	**8.1**		0.2	0.2	SU			07/13/21 20:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-2 Dup

Date Collected: 07/07/21 10:15
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-3

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	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Acetone	**0.029**		0.018	0.0077	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Methylene Chloride	**0.0017**	**J**	0.0044	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Trichloroethene	**0.0010**	**J**	0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/08/21 19:50*	*07/14/21 13:57*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*07/08/21 19:50*	*07/14/21 13:57*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*07/08/21 19:50*	*07/14/21 13:57*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*07/08/21 19:50*	*07/14/21 13:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-2 Dup
Date Collected: 07/07/21 10:15
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-3
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	<0.39		0.39	0.089	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-2 Dup

Date Collected: 07/07/21 10:15
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-3

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	<0.039		0.039	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Phenanthrene	**0.027**	**J**	0.039	0.0054	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1
Pyrene	**0.0092**	**J**	0.039	0.0077	mg/Kg	☼	07/19/21 06:26	07/19/21 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*51*		*31 - 143*	*07/19/21 06:26*	*07/19/21 17:59*	*1*
2-Fluorobiphenyl	*81*		*43 - 145*	*07/19/21 06:26*	*07/19/21 17:59*	*1*
2-Fluorophenol	*104*		*31 - 166*	*07/19/21 06:26*	*07/19/21 17:59*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*07/19/21 06:26*	*07/19/21 17:59*	*1*
Phenol-d5	*102*		*30 - 153*	*07/19/21 06:26*	*07/19/21 17:59*	*1*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*07/19/21 06:26*	*07/19/21 17:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.39**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Arsenic	**5.1**		0.57	0.19	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Barium	**37**		0.57	0.065	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Beryllium	**0.60**		0.23	0.053	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Boron	**14**		2.8	0.27	mg/Kg	☼	07/19/21 09:07	07/23/21 11:30	1
Cadmium	**0.057**	**J B**	0.11	0.020	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Calcium	**72000**	**B**	57	9.6	mg/Kg	☼	07/19/21 09:07	07/22/21 23:37	5
Chromium	**19**		0.57	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Cobalt	**13**		0.28	0.075	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Copper	**21**		0.57	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Iron	**18000**		11	5.9	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Lead	**12**		0.28	0.13	mg/Kg	☼	07/19/21 09:07	07/22/21 23:33	1
Magnesium	**29000**		5.7	2.8	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Manganese	**350**		0.57	0.083	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Nickel	**33**		0.57	0.17	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Potassium	**3200**		28	10	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Selenium	**0.59**	**B**	0.57	0.33	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Silver	**0.10**	**J B**	0.28	0.073	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Sodium	**470**	**B**	57	8.4	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Vanadium	**22**		0.28	0.067	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1
Zinc	**51**		1.1	0.50	mg/Kg	☼	07/19/21 09:07	07/21/21 20:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:13	1
Manganese	**2.3**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:13	1

Client Sample ID: 3036-11-B01-2 Dup

Date Collected: 07/07/21 10:15
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-3

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.015**	**J**	0.050	0.010	mg/L		07/16/21 18:32	07/19/21 19:47	1
Barium	**0.16**	**J**	0.50	0.050	mg/L		07/16/21 18:32	07/19/21 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 19:47	1
Boron	**0.11**		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 19:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 19:47	1
Calcium	**31**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:47	1
Chromium	**0.049**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:47	1
Cobalt	**0.018**	**J**	0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:47	1
Iron	**31**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 19:47	1
Lead	**0.016**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 19:47	1
Manganese	**0.33**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:47	1
Nickel	**0.054**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:47	1
Potassium	**16**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 19:47	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:47	1
Zinc	**0.069**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:31	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		07/19/21 10:05	07/20/21 08:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.018	0.0061	mg/Kg	☼	07/19/21 14:35	07/20/21 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:25	1
pH	**8.1**		0.2	0.2	SU			07/13/21 20:42	1

Client Sample ID: 3036-11-B01-3

Date Collected: 07/07/21 10:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-4

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	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Trichloroethene	**0.0012**	**J**	0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*07/08/21 19:50*	*07/14/21 14:22*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*07/08/21 19:50*	*07/14/21 14:22*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*07/08/21 19:50*	*07/14/21 14:22*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*07/08/21 19:50*	*07/14/21 14:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1

Client Sample ID: 3036-11-B01-3
Date Collected: 07/07/21 10:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-4
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	<0.40		0.40	0.092	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Chrysene	**0.013**	**J**	0.040	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-3
Date Collected: 07/07/21 10:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-4
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	<0.040		0.040	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Phenanthrene	**0.035**	**J**	0.040	0.0056	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1
Pyrene	**0.010**	**J**	0.040	0.0080	mg/Kg	☼	07/19/21 06:26	07/19/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*53*		*31 - 143*	*07/19/21 06:26*	*07/19/21 18:20*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*07/19/21 06:26*	*07/19/21 18:20*	*1*
2-Fluorophenol	*104*		*31 - 166*	*07/19/21 06:26*	*07/19/21 18:20*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*07/19/21 06:26*	*07/19/21 18:20*	*1*
Phenol-d5	*102*		*30 - 153*	*07/19/21 06:26*	*07/19/21 18:20*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*07/19/21 06:26*	*07/19/21 18:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.65**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Arsenic	**7.6**		0.57	0.19	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Barium	**47**		0.57	0.065	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Beryllium	**0.59**		0.23	0.053	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Boron	**14**		2.8	0.27	mg/Kg	☼	07/19/21 09:07	07/23/21 11:34	1
Cadmium	**0.069**	**J B**	0.11	0.021	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Calcium	**69000**	**B**	57	9.7	mg/Kg	☼	07/19/21 09:07	07/22/21 23:43	5
Chromium	**18**		0.57	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Cobalt	**14**		0.28	0.075	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Copper	**22**		0.57	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Iron	**19000**		11	5.9	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/19/21 09:07	07/22/21 23:40	1
Magnesium	**28000**		5.7	2.8	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Manganese	**390**		0.57	0.083	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Nickel	**35**		0.57	0.17	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Potassium	**3200**		28	10	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Silver	**0.11**	**J B**	0.28	0.074	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Sodium	**210**	**B**	57	8.4	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Vanadium	**22**		0.28	0.067	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1
Zinc	**50**		1.1	0.50	mg/Kg	☼	07/19/21 09:07	07/21/21 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.022**	**J**	0.050	0.010	mg/L		07/16/21 18:32	07/19/21 19:50	1
Barium	<0.50		0.50	0.050	mg/L		07/16/21 18:32	07/19/21 19:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 19:50	1
Boron	<0.10		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 19:50	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B01-3
Date Collected: 07/07/21 10:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-4
Matrix: Solid
Percent Solids: 82.0

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		07/16/21 18:32	07/19/21 19:50	1
Calcium	**18**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:50	1
Chromium	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:50	1
Cobalt	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:50	1
Iron	**1.6**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 19:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 19:50	1
Manganese	**0.034**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:50	1
Nickel	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:50	1
Potassium	**2.5**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:50	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 19:50	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:50	1
Zinc	<0.50		0.50	0.020	mg/L		07/16/21 18:32	07/19/21 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/21 10:05	07/20/21 08:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.020	0.0067	mg/Kg	☼	07/19/21 14:35	07/20/21 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:27	1
pH	**8.0**		0.2	0.2	SU			07/13/21 20:44	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-1
Date Collected: 07/07/21 09:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-5
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00077	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Acetone	<0.022		0.022	0.0095	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Chlorobenzene	<0.0022		0.0022	0.00081	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Trichloroethene	**0.0015**	**J**	0.0022	0.00074	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Vinyl chloride	<0.0022		0.0022	0.00097	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	☼	07/08/21 19:50	07/14/21 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*07/08/21 19:50*	*07/14/21 14:48*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*07/08/21 19:50*	*07/14/21 14:48*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/08/21 19:50*	*07/14/21 14:48*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/08/21 19:50*	*07/14/21 14:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-1
Date Collected: 07/07/21 09:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-5
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-1
Date Collected: 07/07/21 09:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-5
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*53*		*31 - 143*	*07/19/21 06:26*	*07/19/21 18:41*	*1*
2-Fluorobiphenyl	*79*		*43 - 145*	*07/19/21 06:26*	*07/19/21 18:41*	*1*
2-Fluorophenol	*100*		*31 - 166*	*07/19/21 06:26*	*07/19/21 18:41*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*07/19/21 06:26*	*07/19/21 18:41*	*1*
Phenol-d5	*97*		*30 - 153*	*07/19/21 06:26*	*07/19/21 18:41*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*07/19/21 06:26*	*07/19/21 18:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.60**	**J**	1.2	0.23	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Arsenic	**4.8**		0.59	0.20	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Barium	**37**		0.59	0.067	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Beryllium	**0.57**		0.23	0.055	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Boron	**15**	**B**	2.9	0.27	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Cadmium	**0.13**	**B**	0.12	0.021	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Calcium	**69000**	**B**	59	9.9	mg/Kg	☼	07/19/21 09:07	07/22/21 23:50	5
Chromium	**18**		0.59	0.29	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Cobalt	**11**		0.29	0.077	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Copper	**24**		0.59	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Iron	**17000**		12	6.1	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Lead	**14**		0.29	0.14	mg/Kg	☼	07/19/21 09:07	07/22/21 23:46	1
Magnesium	**28000**		5.9	2.9	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Manganese	**320**		0.59	0.085	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Nickel	**30**		0.59	0.17	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Potassium	**2900**		29	10	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Selenium	**0.54**	**J B**	0.59	0.35	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Sodium	**2000**	**B**	59	8.7	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Vanadium	**21**		0.29	0.069	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1
Zinc	**52**		1.2	0.52	mg/Kg	☼	07/19/21 09:07	07/21/21 21:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/16/21 18:25	07/19/21 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/16/21 18:25	07/19/21 17:31	1
Chromium	<0.025		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:31	1
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:31	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-1
Date Collected: 07/07/21 09:40
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-5
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:31	1
Manganese	**0.81**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:31	1
Nickel	<0.025		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.10**		0.050	0.010	mg/L		07/16/21 18:32	07/19/21 19:54	1
Barium	**0.61**		0.50	0.050	mg/L		07/16/21 18:32	07/19/21 19:54	1
Beryllium	**0.0092**		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 19:54	1
Boron	**0.20**		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 19:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 19:54	1
Calcium	**66**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:54	1
Chromium	**0.18**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:54	1
Cobalt	**0.071**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:54	1
Iron	**190**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 19:54	1
Lead	**0.11**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 19:54	1
Manganese	**0.93**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:54	1
Nickel	**0.25**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:54	1
Potassium	**35**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:54	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 19:54	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:54	1
Zinc	**0.49**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.0034**		0.0020	0.0020	mg/L		07/16/21 18:25	07/22/21 13:25	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		07/16/21 18:32	07/21/21 18:35	1
Thallium	**0.0039**		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/21 10:05	07/20/21 08:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.019	0.0062	mg/Kg	☼	07/19/21 14:35	07/20/21 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 16:01	07/21/21 18:29	1
pH	**8.9**		0.2	0.2	SU			07/13/21 20:47	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-2
Date Collected: 07/07/21 09:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-6
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Acetone	**0.0092**	**J**	0.017	0.0075	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*07/08/21 19:50*	*07/14/21 15:13*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*07/08/21 19:50*	*07/14/21 15:13*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*07/08/21 19:50*	*07/14/21 15:13*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*07/08/21 19:50*	*07/14/21 15:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1

Client Sample ID: 3036-11-B02-2
Date Collected: 07/07/21 09:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-6
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2-Methylnaphthalene	**0.023**	**J**	0.078	0.0071	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Chrysene	**0.011**	**J**	0.038	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-2
Date Collected: 07/07/21 09:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-6
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Naphthalene	**0.0061**	**J**	0.038	0.0059	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Phenanthrene	**0.041**		0.038	0.0054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1
Pyrene	**0.011**	**J**	0.038	0.0077	mg/Kg	☼	07/19/21 06:26	07/19/21 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*58*		*31 - 143*	*07/19/21 06:26*	*07/19/21 19:02*	*1*
2-Fluorobiphenyl	*85*		*43 - 145*	*07/19/21 06:26*	*07/19/21 19:02*	*1*
2-Fluorophenol	*109*		*31 - 166*	*07/19/21 06:26*	*07/19/21 19:02*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*07/19/21 06:26*	*07/19/21 19:02*	*1*
Phenol-d5	*112*		*30 - 153*	*07/19/21 06:26*	*07/19/21 19:02*	*1*
Terphenyl-d14 (Surr)	*88*		*42 - 157*	*07/19/21 06:26*	*07/19/21 19:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.62**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Arsenic	**4.7**		0.57	0.20	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Barium	**41**		0.57	0.065	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Beryllium	**0.56**		0.23	0.053	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Boron	**16**	**B**	2.9	0.27	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Cadmium	**0.052**	**J B**	0.11	0.021	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Calcium	**71000**	**B**	57	9.7	mg/Kg	☼	07/19/21 09:07	07/23/21 00:02	5
Chromium	**18**		0.57	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Cobalt	**13**		0.29	0.075	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Copper	**21**		0.57	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Iron	**17000**		11	5.9	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Lead	**13**		0.29	0.13	mg/Kg	☼	07/19/21 09:07	07/22/21 23:59	1
Magnesium	**29000**		5.7	2.8	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Manganese	**360**		0.57	0.083	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Nickel	**32**		0.57	0.17	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Potassium	**3100**		29	10	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Sodium	**340**	**B**	57	8.4	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Vanadium	**22**		0.29	0.067	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1
Zinc	**49**		1.1	0.50	mg/Kg	☼	07/19/21 09:07	07/21/21 21:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:35	1
Manganese	**2.4**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:35	1

Client Sample ID: 3036-11-B02-2

Date Collected: 07/07/21 09:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-6

Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.035**	**J**	0.050	0.010	mg/L		07/16/21 18:32	07/19/21 19:57	1
Barium	**0.18**	**J**	0.50	0.050	mg/L		07/16/21 18:32	07/19/21 19:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 19:57	1
Boron	**0.096**	**J**	0.10	0.050	mg/L		07/16/21 18:32	07/19/21 19:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 19:57	1
Calcium	**32**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:57	1
Chromium	**0.051**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:57	1
Cobalt	**0.019**	**J**	0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:57	1
Iron	**29**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 19:57	1
Lead	**0.019**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 19:57	1
Manganese	**0.34**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:57	1
Nickel	**0.057**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:57	1
Potassium	**16**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 19:57	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 19:57	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 19:57	1
Zinc	**0.077**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:41	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		07/19/21 10:05	07/20/21 08:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.018	0.0061	mg/Kg	☼	07/19/21 14:35	07/20/21 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	☼	07/21/21 16:01	07/21/21 18:30	1
pH	**7.9**		0.2	0.2	SU			07/13/21 20:52	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-3
Date Collected: 07/07/21 10:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-7
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Acetone	**0.025**		0.018	0.0080	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	07/07/21 10:00	07/18/21 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*	*07/07/21 10:00*	*07/18/21 21:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*07/07/21 10:00*	*07/18/21 21:08*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*07/07/21 10:00*	*07/18/21 21:08*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*07/07/21 10:00*	*07/18/21 21:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-3
Date Collected: 07/07/21 10:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-7
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B02-3
Date Collected: 07/07/21 10:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-7
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Phenanthrene	**0.015**	**J**	0.041	0.0057	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	07/19/21 06:26	07/19/21 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*31 - 143*	*07/19/21 06:26*	*07/19/21 19:23*	*1*
2-Fluorobiphenyl	*99*		*43 - 145*	*07/19/21 06:26*	*07/19/21 19:23*	*1*
2-Fluorophenol	*115*		*31 - 166*	*07/19/21 06:26*	*07/19/21 19:23*	*1*
Nitrobenzene-d5 (Surr)	*92*		*37 - 147*	*07/19/21 06:26*	*07/19/21 19:23*	*1*
Phenol-d5	*118*		*30 - 153*	*07/19/21 06:26*	*07/19/21 19:23*	*1*
Terphenyl-d14 (Surr)	*104*		*42 - 157*	*07/19/21 06:26*	*07/19/21 19:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.68**	**J**	1.2	0.23	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Arsenic	**4.3**		0.58	0.20	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Barium	**67**		0.58	0.066	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Beryllium	**0.79**		0.23	0.054	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Boron	**23**	**B**	2.9	0.27	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Cadmium	**0.063**	**J B**	0.12	0.021	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Calcium	**63000**	**B**	58	9.9	mg/Kg	☼	07/19/21 09:07	07/23/21 00:09	5
Chromium	**23**		0.58	0.29	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Cobalt	**14**		0.29	0.076	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Copper	**18**		0.58	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Iron	**21000**		12	6.1	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Lead	**12**		0.29	0.13	mg/Kg	☼	07/19/21 09:07	07/23/21 00:06	1
Magnesium	**22000**		5.8	2.9	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Manganese	**320**		0.58	0.085	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Nickel	**36**		0.58	0.17	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Potassium	**4300**		29	10	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Selenium	**0.34**	**J B**	0.58	0.34	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Sodium	**220**	**B**	58	8.6	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Vanadium	**28**		0.29	0.069	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1
Zinc	**57**		1.2	0.51	mg/Kg	☼	07/19/21 09:07	07/21/21 21:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:38	1
Manganese	**2.0**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:38	1

Client Sample ID: 3036-11-B02-3

Date Collected: 07/07/21 10:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-7

Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.031**	**J**	0.050	0.010	mg/L		07/16/21 18:32	07/19/21 20:00	1
Barium	**0.26**	**J**	0.50	0.050	mg/L		07/16/21 18:32	07/19/21 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 20:00	1
Boron	**0.14**		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 20:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 20:00	1
Calcium	**39**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 20:00	1
Chromium	**0.062**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:00	1
Cobalt	**0.027**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:00	1
Iron	**42**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 20:00	1
Lead	**0.021**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 20:00	1
Manganese	**0.40**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:00	1
Nickel	**0.071**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:00	1
Potassium	**19**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 20:00	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 20:00	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:00	1
Zinc	**0.090**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/21 10:05	07/20/21 08:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.020	0.0068	mg/Kg	☼	07/19/21 14:35	07/20/21 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:32	1
pH	**8.2**		0.2	0.2	SU			07/13/21 20:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B03-1
Date Collected: 07/07/21 09:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-8
Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Trichloroethene	**0.00071**	**J**	0.0019	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*	*07/08/21 19:50*	*07/14/21 16:04*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*07/08/21 19:50*	*07/14/21 16:04*	*1*
Dibromofluoromethane	*106*		*75 - 126*	*07/08/21 19:50*	*07/14/21 16:04*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*07/08/21 19:50*	*07/14/21 16:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1

Client Sample ID: 3036-11-B03-1
Date Collected: 07/07/21 09:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-8
Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Benzo[a]anthracene	**0.021**	**J**	0.038	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Benzo[a]pyrene	**0.029**	**J**	0.038	0.0074	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Benzo[b]fluoranthene	**0.052**		0.038	0.0083	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Benzo[g,h,i]perylene	**0.015**	**J**	0.038	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Benzo[k]fluoranthene	**0.020**	**J**	0.038	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Chrysene	**0.035**	**J**	0.038	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Fluoranthene	**0.051**		0.038	0.0071	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B03-1
Date Collected: 07/07/21 09:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-8
Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.014**	**J**	0.038	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Phenanthrene	**0.026**	**J**	0.038	0.0054	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1
Pyrene	**0.049**		0.038	0.0076	mg/Kg	☼	07/19/21 06:26	07/19/21 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*31 - 143*	*07/19/21 06:26*	*07/19/21 19:44*	*1*
2-Fluorobiphenyl	*92*		*43 - 145*	*07/19/21 06:26*	*07/19/21 19:44*	*1*
2-Fluorophenol	*112*		*31 - 166*	*07/19/21 06:26*	*07/19/21 19:44*	*1*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*07/19/21 06:26*	*07/19/21 19:44*	*1*
Phenol-d5	*116*		*30 - 153*	*07/19/21 06:26*	*07/19/21 19:44*	*1*
Terphenyl-d14 (Surr)	*97*		*42 - 157*	*07/19/21 06:26*	*07/19/21 19:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.86**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Arsenic	**6.7**		0.57	0.19	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Barium	**99**		0.57	0.064	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Beryllium	**0.66**		0.23	0.053	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Boron	**9.4**	**B**	2.8	0.26	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Cadmium	**0.33**	**B**	0.11	0.020	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Calcium	**6700**	**B**	11	1.9	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Chromium	**18**		0.57	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Cobalt	**11**		0.28	0.074	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Copper	**20**		0.57	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Iron	**18000**		11	5.9	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Lead	**31**		0.28	0.13	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Magnesium	**4500**		5.7	2.8	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Manganese	**390**		0.57	0.082	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Nickel	**22**		0.57	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Potassium	**1700**		28	10	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Selenium	**0.81**	**B**	0.57	0.33	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Silver	**0.14**	**J B**	0.28	0.073	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Sodium	**440**	**B**	57	8.4	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Vanadium	**30**		0.28	0.067	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1
Zinc	**130**		1.1	0.50	mg/Kg	☼	07/19/21 09:07	07/21/21 21:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/16/21 18:25	07/19/21 17:42	1
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:42	1
Manganese	**0.17**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:42	1

Client Sample ID: 3036-11-B03-1

Date Collected: 07/07/21 09:10
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-8

Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.060**		0.050	0.010	mg/L		07/16/21 18:32	07/19/21 20:03	1
Barium	**0.36**	**J**	0.50	0.050	mg/L		07/16/21 18:32	07/19/21 20:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 20:03	1
Boron	**0.11**		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 20:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 20:03	1
Calcium	**15**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 20:03	1
Chromium	**0.082**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:03	1
Cobalt	**0.012**	**J**	0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:03	1
Iron	**68**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 20:03	1
Lead	**0.045**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 20:03	1
Manganese	**0.26**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:03	1
Nickel	**0.056**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:03	1
Potassium	**12**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 20:03	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 20:03	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:03	1
Zinc	**0.42**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:45	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		07/19/21 10:05	07/20/21 08:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.073**		0.019	0.0062	mg/Kg	☼	07/19/21 14:35	07/20/21 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.23**	**J**	0.27	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:34	1
pH	**8.1**		0.2	0.2	SU			07/13/21 20:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B03-2
Date Collected: 07/07/21 09:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-9
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Trichloroethene	**0.00071**	**J**	0.0018	0.00062	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*07/08/21 19:50*	*07/14/21 16:29*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*07/08/21 19:50*	*07/14/21 16:29*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*07/08/21 19:50*	*07/14/21 16:29*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*07/08/21 19:50*	*07/14/21 16:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B03-2
Date Collected: 07/07/21 09:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-9
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1

Client Sample ID: 3036-11-B03-2
Date Collected: 07/07/21 09:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-9
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	07/19/21 06:26	07/19/21 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*31 - 143*	*07/19/21 06:26*	*07/19/21 20:05*	*1*
2-Fluorobiphenyl	*96*		*43 - 145*	*07/19/21 06:26*	*07/19/21 20:05*	*1*
2-Fluorophenol	*117*		*31 - 166*	*07/19/21 06:26*	*07/19/21 20:05*	*1*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*	*07/19/21 06:26*	*07/19/21 20:05*	*1*
Phenol-d5	*115*		*30 - 153*	*07/19/21 06:26*	*07/19/21 20:05*	*1*
Terphenyl-d14 (Surr)	*100*		*42 - 157*	*07/19/21 06:26*	*07/19/21 20:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J**	1.1	0.22	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Arsenic	**6.7**		0.56	0.19	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Barium	**41**		0.56	0.064	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Beryllium	**0.52**		0.22	0.052	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Boron	**15**	**B**	2.8	0.26	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Cadmium	**0.091**	**J B**	0.11	0.020	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Calcium	**90000**	**B**	56	9.5	mg/Kg	☼	07/19/21 09:07	07/23/21 00:15	5
Chromium	**18**		0.56	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Cobalt	**13**		0.28	0.074	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Copper	**22**		0.56	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Iron	**24000**		56	29	mg/Kg	☼	07/19/21 09:07	07/23/21 00:15	5
Lead	**13**		0.28	0.13	mg/Kg	☼	07/19/21 09:07	07/23/21 00:12	1
Magnesium	**47000**		28	14	mg/Kg	☼	07/19/21 09:07	07/23/21 00:15	5
Manganese	**430**		0.56	0.081	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Nickel	**31**		0.56	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Potassium	**2900**		28	9.9	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Selenium	**0.33**	**J B**	0.56	0.33	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Sodium	**330**	**B**	56	8.3	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Vanadium	**21**		0.28	0.066	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1
Zinc	**51**		1.1	0.49	mg/Kg	☼	07/19/21 09:07	07/21/21 21:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.010**	**J**	0.050	0.010	mg/L		07/16/21 18:25	07/19/21 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/16/21 18:25	07/19/21 17:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:46	1
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:46	1

Client Sample ID: 3036-11-B03-2

Date Collected: 07/07/21 09:20
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-9

Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:46	1
Manganese	**0.81**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:46	1
Nickel	<0.025		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.095**		0.050	0.010	mg/L		07/16/21 18:32	07/19/21 20:06	1
Barium	**0.42**	**J**	0.50	0.050	mg/L		07/16/21 18:32	07/19/21 20:06	1
Beryllium	**0.0066**		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 20:06	1
Boron	**0.18**		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 20:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 20:06	1
Calcium	**57**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 20:06	1
Chromium	**0.13**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:06	1
Cobalt	**0.040**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:06	1
Iron	**130**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 20:06	1
Lead	**0.069**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 20:06	1
Manganese	**0.55**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:06	1
Nickel	**0.16**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:06	1
Potassium	**31**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 20:06	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 20:06	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:06	1
Zinc	**0.32**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:48	1
Thallium	**0.0020**		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:48	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		07/19/21 10:05	07/20/21 08:57	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	☼	07/19/21 14:35	07/20/21 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 18:35	1
pH	**8.1**		0.2	0.2	SU			07/13/21 21:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B03-3
Date Collected: 07/07/21 09:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-10
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*07/08/21 19:50*	*07/14/21 16:55*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*07/08/21 19:50*	*07/14/21 16:55*	*1*
Dibromofluoromethane	*102*		*75 - 126*	*07/08/21 19:50*	*07/14/21 16:55*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*07/08/21 19:50*	*07/14/21 16:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B03-3
Date Collected: 07/07/21 09:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-10
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Client Sample ID: 3036-11-B03-3
Date Collected: 07/07/21 09:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-10
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Phenanthrene	**0.022**	**J**	0.039	0.0055	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1
Pyrene	**0.0080**	**J**	0.039	0.0078	mg/Kg	☼	07/19/21 06:26	07/19/21 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*31 - 143*	*07/19/21 06:26*	*07/19/21 20:26*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*07/19/21 06:26*	*07/19/21 20:26*	*1*
2-Fluorophenol	*110*		*31 - 166*	*07/19/21 06:26*	*07/19/21 20:26*	*1*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*	*07/19/21 06:26*	*07/19/21 20:26*	*1*
Phenol-d5	*106*		*30 - 153*	*07/19/21 06:26*	*07/19/21 20:26*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*07/19/21 06:26*	*07/19/21 20:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.41**	**J**	1.2	0.23	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Arsenic	**4.1**		0.58	0.20	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Barium	**55**		0.58	0.066	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Beryllium	**0.68**		0.23	0.054	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Boron	**20**	**B**	2.9	0.27	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Cadmium	**0.094**	**J B**	0.12	0.021	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Calcium	**62000**	**B**	58	9.9	mg/Kg	☼	07/19/21 09:07	07/23/21 00:22	5
Chromium	**22**		0.58	0.29	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Cobalt	**12**		0.29	0.076	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Copper	**19**		0.58	0.16	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Iron	**19000**		12	6.1	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Lead	**11**		0.29	0.13	mg/Kg	☼	07/19/21 09:07	07/23/21 00:19	1
Magnesium	**23000**		5.8	2.9	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Manganese	**330**		0.58	0.084	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Nickel	**33**		0.58	0.17	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Potassium	**3900**		29	10	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Silver	**0.077**	**J B**	0.29	0.075	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Sodium	**190**	**B**	58	8.6	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Vanadium	**26**		0.29	0.069	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	1
Zinc	**57**		1.2	0.51	mg/Kg	☼	07/19/21 09:07	07/21/21 21:17	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		07/16/21 18:25	07/19/21 17:49	1
Iron	<0.40		0.40	0.20	mg/L		07/16/21 18:25	07/19/21 17:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/16/21 18:25	07/19/21 17:49	1
Manganese	**2.4**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:49	1

Client Sample ID: 3036-11-B03-3

Date Collected: 07/07/21 09:30
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202029-10

Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**0.026**		0.025	0.010	mg/L		07/16/21 18:25	07/19/21 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.039**	**J**	0.050	0.010	mg/L		07/16/21 18:32	07/19/21 20:10	1
Barium	**0.38**	**J**	0.50	0.050	mg/L		07/16/21 18:32	07/19/21 20:10	1
Beryllium	**0.0050**		0.0040	0.0040	mg/L		07/16/21 18:32	07/19/21 20:10	1
Boron	**0.17**		0.10	0.050	mg/L		07/16/21 18:32	07/19/21 20:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/16/21 18:32	07/19/21 20:10	1
Calcium	**62**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 20:10	1
Chromium	**0.10**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:10	1
Cobalt	**0.039**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:10	1
Iron	**71**		0.40	0.20	mg/L		07/16/21 18:32	07/19/21 20:10	1
Lead	**0.045**		0.0075	0.0075	mg/L		07/16/21 18:32	07/19/21 20:10	1
Manganese	**0.77**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:10	1
Nickel	**0.11**		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:10	1
Potassium	**28**		2.5	0.50	mg/L		07/16/21 18:32	07/19/21 20:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/16/21 18:32	07/19/21 20:10	1
Silver	<0.025		0.025	0.010	mg/L		07/16/21 18:32	07/19/21 20:10	1
Zinc	**0.17**	**J ^2**	0.50	0.020	mg/L		07/16/21 18:32	07/19/21 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/16/21 18:32	07/21/21 18:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/16/21 18:32	07/21/21 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/21 10:05	07/20/21 08:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.019	0.0063	mg/Kg	☼	07/19/21 14:35	07/20/21 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 16:01	07/21/21 19:13	1
pH	**8.2**		0.2	0.2	SU			07/13/21 21:02	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202029-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

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 - 046 500-202029 COC ___ Project No PTB/WO: 184-006/046 TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other **Sampler:** PLO ABB, SK

COC No 1 of 1

Lab Job No 500-202029

Sample Temp. 1.1 2.3

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

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	3036-11-B01-1	7/7/21	10:10	S	X	X					X	X	X	X	X					
2	3036-11-B01-2	7/7/21	10:20	S	X	X					X	X	X	X	X					
3	3036-11-B01-2 DUP	7/7/21	10:15	S	X	X					X	X	X	X	X					
4	3036-11-B01-3	7/7/21	10:30	S	X	X					X	X	X	X	X					
5	3036-11-B02-1	7/7/21	9:40	S	↓	↓					↓	↓	↓	↓	↓					
6	3036-11-B02-2	7/7/21	9:50	S																
7	3036-11-B02-3	7/7/21	10:00	S																
8	3036-11-B03-1	7/7/21	9:10	S																
9	3036-11-B03-2	7/7/21	9:20	S																
10	3036-11-B03-3	7/7/21	9:38	S	X	X					X	X	X	X	X					

Relinquished by	Date/Time 7/8/21 9:43	Received by	Date/Time 7/8/21 0943
Relinquished by K. Neal	Date/Time 7/8/21 1057	Received by Stephanie Hernandez ETA-CHI	Date/Time 7/8/21 1057
Relinquished by	Date/Time	Received by	Date/Time

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 3512 (US 14) Office Phone Number, if available:

Physical Site Location (address, including number and street):
410 Western Avenue (northwest quadrant of Northwest Highway and Western Avenue)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04561 (Decimal Degrees) Longitude: -87.89628 (-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.): 526

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.

Project Name: FAU 3512 (US 14) Latitude: 42.04561 Longitude: - 87.89628

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 3036-12-B01 AND 3036-12-B02 WERE SAMPLED ADJACENT TO SITE 3036V-13. SEE TABLE 3i AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-202032-1.

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:

Sep 3, 2021
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 3036V-13
Residential Building

Sample ID	3036-12-B01	3036-12-B02	3036-12-B02 DUP	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7	0-7	0-7					
Sample Date	7/7/2021	7/7/2021	7/7/2021	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0	0					
Sample pH	8.2	8.3	8					
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202032-1
Client Project/Site: IDOT - AE7-046

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

Attn: Ms. Colleen Grey

Authorized for release by:
7/23/2021 12:28:19 PM

Richard Wright, Senior Project Manager
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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client Sample ID: 3036-12-B01
Date Collected: 07/07/21 09:00
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-1
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0013		0.0013	0.00043	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0013	0.00041	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
1,1,2-Trichloroethane	<0.0013		0.0013	0.00055	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
1,1-Dichloroethane	<0.0013		0.0013	0.00044	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
1,1-Dichloroethene	<0.0013		0.0013	0.00044	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
1,2-Dichloroethane	<0.0032		0.0032	0.00099	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
1,2-Dichloropropane	<0.0013		0.0013	0.00033	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
1,3-Dichloropropene, Total	<0.0013		0.0013	0.00045	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
2-Butanone (MEK)	<0.0032		0.0032	0.0014	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
2-Hexanone	<0.0032		0.0032	0.00099	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
4-Methyl-2-pentanone (MIBK)	<0.0032		0.0032	0.00094	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Acetone	<0.013		0.013	0.0055	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Benzene	<0.0013		0.0013	0.00032	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Bromodichloromethane	<0.0013		0.0013	0.00026	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Bromoform	<0.0013		0.0013	0.00037	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Bromomethane	<0.0032		0.0032	0.0012	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Carbon disulfide	<0.0032		0.0032	0.00066	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Carbon tetrachloride	<0.0013		0.0013	0.00037	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Chlorobenzene	<0.0013		0.0013	0.00047	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Chloroethane	<0.0032	*+	0.0032	0.00094	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Chloroform	<0.0013		0.0013	0.00044	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Chloromethane	<0.0032		0.0032	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
cis-1,2-Dichloroethene	<0.0013		0.0013	0.00036	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
cis-1,3-Dichloropropene	<0.0013		0.0013	0.00038	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Dibromochloromethane	<0.0013		0.0013	0.00042	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Ethylbenzene	<0.0013		0.0013	0.00061	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Methyl tert-butyl ether	<0.0013		0.0013	0.00037	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Methylene Chloride	<0.0032		0.0032	0.0013	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Styrene	<0.0013		0.0013	0.00038	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Tetrachloroethene	<0.0013		0.0013	0.00043	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Toluene	<0.0013		0.0013	0.00032	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
trans-1,2-Dichloroethene	<0.0013		0.0013	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
trans-1,3-Dichloropropene	<0.0013		0.0013	0.00045	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Trichloroethene	**0.00071**	**J**	0.0013	0.00043	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Vinyl chloride	<0.0013		0.0013	0.00056	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1
Xylenes, Total	<0.0025		0.0025	0.00041	mg/Kg	☼	07/08/21 19:50	07/15/21 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*07/08/21 19:50*	*07/15/21 14:19*	*1*
4-Bromofluorobenzene (Surr)	*89*		*75 - 131*	*07/08/21 19:50*	*07/15/21 14:19*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/08/21 19:50*	*07/15/21 14:19*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*07/08/21 19:50*	*07/15/21 14:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1

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Lab Sample ID: 500-202032-1
Matrix: Solid
Percent Solids: 86.9

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	0.086	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1

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Lab Sample ID: 500-202032-1
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*31 - 143*	*07/19/21 06:26*	*07/19/21 20:47*	*1*
2-Fluorobiphenyl	*92*		*43 - 145*	*07/19/21 06:26*	*07/19/21 20:47*	*1*
2-Fluorophenol	*112*		*31 - 166*	*07/19/21 06:26*	*07/19/21 20:47*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*07/19/21 06:26*	*07/19/21 20:47*	*1*
Phenol-d5	*109*		*30 - 153*	*07/19/21 06:26*	*07/19/21 20:47*	*1*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*07/19/21 06:26*	*07/19/21 20:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.28**	**J B**	1.1	0.22	mg/Kg	☼	07/19/21 17:15	07/22/21 12:22	1
Arsenic	**6.5**		0.56	0.19	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Barium	**44**		0.56	0.064	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Beryllium	**0.89**		0.23	0.053	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Boron	**11**		2.8	0.26	mg/Kg	☼	07/19/21 17:15	07/22/21 12:22	1
Cadmium	**0.067**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Calcium	**71000**	**B**	56	9.5	mg/Kg	☼	07/19/21 17:15	07/22/21 12:25	5
Chromium	**18**		0.56	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Cobalt	**16**		0.28	0.074	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Copper	**20**		0.56	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Iron	**17000**		11	5.9	mg/Kg	☼	07/19/21 17:15	07/22/21 12:22	1
Lead	**14**		0.28	0.13	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Magnesium	**31000**	**B**	5.6	2.8	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Manganese	**490**	**B**	0.56	0.082	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Nickel	**37**		0.56	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Potassium	**2800**		28	10	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Selenium	**0.33**	**J**	0.56	0.33	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Silver	**0.20**	**J**	0.28	0.073	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Sodium	**300**		56	8.3	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Thallium	**1.5**		0.56	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Vanadium	**21**		0.28	0.066	mg/Kg	☼	07/19/21 17:15	07/20/21 20:38	1
Zinc	**45**		1.1	0.49	mg/Kg	☼	07/19/21 17:15	07/22/21 12:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/19/21 18:15	07/22/21 14:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:15	07/20/21 16:03	1

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Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/19/21 18:18	07/20/21 16:06	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		07/19/21 18:18	07/20/21 16:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 16:06	1
Boron	**0.19**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 16:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/19/21 18:18	07/20/21 16:06	1
Calcium	**15**		2.5	0.50	mg/L		07/19/21 18:18	07/22/21 14:37	1
Chromium	**0.034**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:06	1
Cobalt	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:06	1
Iron	**28**		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 16:06	1
Lead	**0.014**		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 16:06	1
Manganese	**0.13**	**B**	0.025	0.010	mg/L		07/19/21 18:18	07/22/21 14:37	1
Nickel	**0.035**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:06	1
Potassium	**11**		2.5	0.50	mg/L		07/19/21 18:18	07/20/21 16:06	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 16:06	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:06	1
Zinc	**0.085**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 19:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 19:59	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		07/20/21 09:55	07/21/21 09:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.019	0.0062	mg/Kg	☼	07/19/21 14:35	07/20/21 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	☼	07/21/21 17:27	07/21/21 19:48	1
pH	**8.2**		0.2	0.2	SU			07/13/21 21:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202032-1

Client Sample ID: 3036-12-B02
Date Collected: 07/07/21 08:45
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-2
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	07/08/21 19:50	07/14/21 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/08/21 19:50*	*07/14/21 16:43*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*07/08/21 19:50*	*07/14/21 16:43*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*07/08/21 19:50*	*07/14/21 16:43*	*1*
Toluene-d8 (Surr)	*95*		*75 - 124*	*07/08/21 19:50*	*07/14/21 16:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202032-1

Client Sample ID: 3036-12-B02
Date Collected: 07/07/21 08:45
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-2
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202032-1

Client Sample ID: 3036-12-B02
Date Collected: 07/07/21 08:45
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-2
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	07/19/21 06:26	07/19/21 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*31 - 143*	*07/19/21 06:26*	*07/19/21 21:08*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*07/19/21 06:26*	*07/19/21 21:08*	*1*
2-Fluorophenol	*123*		*31 - 166*	*07/19/21 06:26*	*07/19/21 21:08*	*1*
Nitrobenzene-d5 (Surr)	*88*		*37 - 147*	*07/19/21 06:26*	*07/19/21 21:08*	*1*
Phenol-d5	*127*		*30 - 153*	*07/19/21 06:26*	*07/19/21 21:08*	*1*
Terphenyl-d14 (Surr)	*99*		*42 - 157*	*07/19/21 06:26*	*07/19/21 21:08*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.33**	**J B**	1.1	0.22	mg/Kg	☼	07/19/21 17:15	07/22/21 12:29	1
Arsenic	**6.7**		0.57	0.19	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Barium	**44**		0.57	0.065	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Beryllium	**0.91**		0.23	0.053	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Boron	**11**		2.8	0.26	mg/Kg	☼	07/19/21 17:15	07/22/21 12:29	1
Cadmium	**0.075**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Calcium	**57000**	**B**	57	9.6	mg/Kg	☼	07/19/21 17:15	07/22/21 12:32	5
Chromium	**19**		0.57	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Cobalt	**13**		0.28	0.074	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Copper	**19**		0.57	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Iron	**18000**		11	5.9	mg/Kg	☼	07/19/21 17:15	07/22/21 12:29	1
Lead	**13**		0.28	0.13	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Magnesium	**27000**	**B**	5.7	2.8	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Manganese	**370**	**B**	0.57	0.082	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Nickel	**34**		0.57	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Potassium	**3000**		28	10	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Silver	**0.24**	**J**	0.28	0.073	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Sodium	**740**		57	8.4	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Thallium	**1.4**		0.57	0.28	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Vanadium	**21**		0.28	0.067	mg/Kg	☼	07/19/21 17:15	07/20/21 20:42	1
Zinc	**48**		1.1	0.50	mg/Kg	☼	07/19/21 17:15	07/22/21 12:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/19/21 18:15	07/22/21 14:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:15	07/20/21 16:07	1
Manganese	**0.64**		0.025	0.010	mg/L		07/19/21 18:15	07/22/21 18:32	1

Client Sample ID: 3036-12-B02

Date Collected: 07/07/21 08:45
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-2

Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**	**J**	0.050	0.010	mg/L		07/19/21 18:18	07/20/21 16:10	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		07/19/21 18:18	07/20/21 16:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 16:10	1
Boron	**0.35**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 16:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/19/21 18:18	07/20/21 16:10	1
Calcium	**31**		2.5	0.50	mg/L		07/19/21 18:18	07/22/21 14:40	1
Chromium	**0.052**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:10	1
Cobalt	**0.014**	**J**	0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:10	1
Iron	**43**		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 16:10	1
Lead	**0.027**		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 16:10	1
Manganese	**0.21**	**B**	0.025	0.010	mg/L		07/19/21 18:18	07/22/21 14:40	1
Nickel	**0.053**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:10	1
Potassium	**16**		2.5	0.50	mg/L		07/19/21 18:18	07/20/21 16:10	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 16:10	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:10	1
Zinc	**0.12**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 20:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 20:01	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		07/20/21 09:55	07/21/21 09:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.018	0.0061	mg/Kg	☼	07/19/21 14:35	07/20/21 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☼	07/21/21 17:27	07/21/21 19:49	1
pH	**8.3**		0.2	0.2	SU			07/13/21 21:07	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202032-1

Client Sample ID: 3036-12-B02 Dup

Date Collected: 07/07/21 08:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-3

Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Acetone	**0.015**	**J**	0.017	0.0073	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Benzene	**0.0020**		0.0017	0.00043	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Toluene	**0.0028**		0.0017	0.00043	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1
Xylenes, Total	**0.0011**	**J**	0.0034	0.00054	mg/Kg	☼	07/07/21 08:50	07/18/21 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*07/07/21 08:50*	*07/18/21 20:18*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*07/07/21 08:50*	*07/18/21 20:18*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*07/07/21 08:50*	*07/18/21 20:18*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*07/07/21 08:50*	*07/18/21 20:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1

Client Sample ID: 3036-12-B02 Dup
Date Collected: 07/07/21 08:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-3
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-046

Job ID: 500-202032-1

Client Sample ID: 3036-12-B02 Dup

Date Collected: 07/07/21 08:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-3

Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	07/19/21 06:26	07/19/21 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*31 - 143*	*07/19/21 06:26*	*07/19/21 21:29*	*1*
2-Fluorobiphenyl	*94*		*43 - 145*	*07/19/21 06:26*	*07/19/21 21:29*	*1*
2-Fluorophenol	*118*		*31 - 166*	*07/19/21 06:26*	*07/19/21 21:29*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*07/19/21 06:26*	*07/19/21 21:29*	*1*
Phenol-d5	*117*		*30 - 153*	*07/19/21 06:26*	*07/19/21 21:29*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*07/19/21 06:26*	*07/19/21 21:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.37**	**J B**	1.1	0.21	mg/Kg	☼	07/19/21 17:15	07/22/21 12:36	1
Arsenic	**8.0**		0.55	0.19	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Barium	**57**		0.55	0.062	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Beryllium	**0.99**		0.22	0.051	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Boron	**7.3**		2.7	0.25	mg/Kg	☼	07/19/21 17:15	07/22/21 12:36	1
Cadmium	**0.039**	**J**	0.11	0.020	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Calcium	**26000**	**B**	11	1.9	mg/Kg	☼	07/19/21 17:15	07/22/21 12:36	1
Chromium	**20**		0.55	0.27	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Cobalt	**14**		0.27	0.072	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Copper	**19**		0.55	0.15	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Iron	**20000**		11	5.7	mg/Kg	☼	07/19/21 17:15	07/22/21 12:36	1
Lead	**15**		0.27	0.13	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Magnesium	**22000**	**B**	5.5	2.7	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Manganese	**400**	**B**	0.55	0.079	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Nickel	**34**		0.55	0.16	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Potassium	**2300**		27	9.7	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Silver	**0.27**		0.27	0.071	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Sodium	**980**		55	8.1	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Thallium	**1.7**		0.55	0.27	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Vanadium	**24**		0.27	0.065	mg/Kg	☼	07/19/21 17:15	07/20/21 20:45	1
Zinc	**54**		1.1	0.48	mg/Kg	☼	07/19/21 17:15	07/22/21 12:36	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		07/19/21 18:15	07/22/21 18:35	1
Chromium	<0.025		0.025	0.010	mg/L		07/19/21 18:15	07/20/21 16:10	1
Iron	<0.40		0.40	0.20	mg/L		07/19/21 18:15	07/22/21 14:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/19/21 18:15	07/20/21 16:10	1

Client Sample ID: 3036-12-B02 Dup

Date Collected: 07/07/21 08:50
Date Received: 07/08/21 10:57

Lab Sample ID: 500-202032-3

Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.81**		0.025	0.010	mg/L		07/19/21 18:15	07/22/21 18:35	1
Nickel	<0.025		0.025	0.010	mg/L		07/19/21 18:15	07/20/21 16:10	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		07/19/21 18:18	07/20/21 16:13	1
Barium	**0.48**	**J**	0.50	0.050	mg/L		07/19/21 18:18	07/20/21 16:13	1
Beryllium	**0.0062**		0.0040	0.0040	mg/L		07/19/21 18:18	07/20/21 16:13	1
Boron	**0.23**		0.10	0.050	mg/L		07/19/21 18:18	07/20/21 16:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/19/21 18:18	07/20/21 16:13	1
Calcium	**31**		2.5	0.50	mg/L		07/19/21 18:18	07/22/21 14:43	1
Chromium	**0.13**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:13	1
Cobalt	**0.036**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:13	1
Iron	**120**		0.40	0.20	mg/L		07/19/21 18:18	07/20/21 16:13	1
Lead	**0.050**		0.0075	0.0075	mg/L		07/19/21 18:18	07/20/21 16:13	1
Manganese	**0.64**	**B**	0.025	0.010	mg/L		07/19/21 18:18	07/22/21 14:43	1
Nickel	**0.14**		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:13	1
Potassium	**25**		2.5	0.50	mg/L		07/19/21 18:18	07/20/21 16:13	1
Selenium	<0.050		0.050	0.020	mg/L		07/19/21 18:18	07/20/21 16:13	1
Silver	<0.025		0.025	0.010	mg/L		07/19/21 18:18	07/20/21 16:13	1
Zinc	**0.36**	**J**	0.50	0.020	mg/L		07/19/21 18:18	07/20/21 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		07/19/21 18:15	07/22/21 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		07/19/21 18:18	07/21/21 20:03	1
Thallium	**0.0037**		0.0020	0.0020	mg/L		07/19/21 18:18	07/21/21 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/20/21 09:55	07/21/21 09:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.019	0.0062	mg/Kg	☼	07/19/21 14:35	07/20/21 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	☼	07/21/21 17:27	07/21/21 19:51	1
pH	**8.0**		0.2	0.2	SU			07/13/21 21:10	1

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-202032-1
Project/Site: IDOT - AE7-046

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

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

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

500-202032 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 AE7-046 Project No PTB/WO: 184-006/046 TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** PLC, AAB, SK

COC No 1 of 1

Lab Job No 500-202032

Sample Temp 1.1, 2.3

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

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	3036-12-B01	7/7/21	9:00	S	X	X					X	X	X	X	X					
2	3036-12-B02	7/7/21	8:45	S	X	X					X	X	X	X	X					
3	3036-12-B02 DUP	7/7/21	8:50	S	X	X					X	X	X	X	X					
4	3036-12-B03	7/7/21	8:30	S	X	X					X	X	X	X	X					
5	Trip Blank ~~#38~~ #1	7/7/21	14:00	~~S~~	X															

Relinquished by		Date/Time 7/8/21 9:43am	Received by	Date/Time 7/8/21 0943
Relinquished by		Date/Time 7/8/21 1057	Received by Stephanie Hernandez ETA-CHI	Date/Time 7/8/21 1057
Relinquished by		Date/Time	Received by	Date/Time