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 3562 (Joliet Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
6200-6230 South Brainard Avenue and 841 63rd Street (southwest corner of Brainard Avenue and 63rd Street)

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.77547 (Decimal Degrees) Longitude: -87.87789 (-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.): 166

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 3562 (Joliet Road) Latitude: 41.77547 Longitude: - 87.87789

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 2861V2-1-B01 WAS SAMPLED AT SITE 2861V2-1. SEE TABLE 3a 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253799-1.

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

I, Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Savo Radulovic
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Oct 3, 2024
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 2861V2-1
Residences

Sample ID	2861V2-1-B01	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3					
Sample Date	7/18/2024	[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	8.8					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 8:13:21 AM

JOB DESCRIPTION

IDOT - AE8-032A

JOB NUMBER

500-253799-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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

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

Authorization

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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
Designee for
Jodie Bracken, Project Manager I
Jodie.Bracken@ET.EurofinsUS.com
(708)534-5200

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253799-1

Client Sample ID: 2861V2-1-B01
Date Collected: 07/18/24 13:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253799-1
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00059	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00072	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00054	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
1,1-Dichloroethane	<0.0015		0.0015	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
1,1-Dichloroethene	<0.0015		0.0015	0.00060	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
1,2-Dichloroethane	<0.0036		0.0036	0.00094	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
1,2-Dichloropropane	<0.0015		0.0015	0.00037	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00070	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
2-Hexanone	<0.0036		0.0036	0.0022	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0026	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Acetone	<0.015		0.015	0.0061	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Benzene	<0.0015		0.0015	0.00046	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Bromodichloromethane	<0.0015		0.0015	0.00047	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Bromoform	<0.0015		0.0015	0.00085	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Bromomethane	<0.0036	*+	0.0036	0.0018	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Carbon disulfide	<0.0036		0.0036	0.00067	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Carbon tetrachloride	<0.0015		0.0015	0.00049	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Chlorobenzene	<0.0015		0.0015	0.00061	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Chloroethane	<0.0036		0.0036	0.0012	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Chloroform	<0.0015		0.0015	0.0010	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Chloromethane	<0.0036		0.0036	0.00070	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00059	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Dibromochloromethane	<0.0015		0.0015	0.00067	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Ethylbenzene	<0.0015		0.0015	0.00076	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00047	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Methylene Chloride	**0.0020**	**J B**	0.0036	0.0016	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Styrene	<0.0015		0.0015	0.00065	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Tetrachloroethene	<0.0015		0.0015	0.00082	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Toluene	<0.0015		0.0015	0.00029	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00070	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Trichloroethene	<0.0015		0.0015	0.00040	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Vinyl chloride	<0.0015		0.0015	0.00059	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1
Xylenes, Total	<0.0029		0.0029	0.00050	mg/Kg	☼	07/20/24 07:41	07/22/24 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*07/20/24 07:41*	*07/22/24 15:22*	*1*
4-Bromofluorobenzene (Surr)	*125*		*75 - 131*	*07/20/24 07:41*	*07/22/24 15:22*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 126*	*07/20/24 07:41*	*07/22/24 15:22*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*07/20/24 07:41*	*07/22/24 15:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253799-1

Client Sample ID: 2861V2-1-B01
Date Collected: 07/18/24 13:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253799-1
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2-Methylnaphthalene	<0.077		0.077	0.0076	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.21	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Benzo[a]anthracene	**0.018**	**J**	0.038	0.0081	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Benzo[g,h,i]perylene	**0.019**	**J**	0.038	0.0083	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Benzo[k]fluoranthene	**0.017**	**J**	0.038	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Chrysene	**0.026**	**J**	0.038	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Fluoranthene	**0.033**	**J**	0.038	0.0088	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253799-1

Client Sample ID: 2861V2-1-B01
Date Collected: 07/18/24 13:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253799-1
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Phenanthrene	**0.017**	**J**	0.038	0.0083	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Phenol	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1
Pyrene	**0.028**	**J**	0.038	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*31 - 143*	*07/22/24 15:17*	*07/23/24 18:39*	*1*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*	*07/22/24 15:17*	*07/23/24 18:39*	*1*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*07/22/24 15:17*	*07/23/24 18:39*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*07/22/24 15:17*	*07/23/24 18:39*	*1*
Phenol-d5 (Surr)	*70*		*30 - 153*	*07/22/24 15:17*	*07/23/24 18:39*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*07/22/24 15:17*	*07/23/24 18:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.43	mg/Kg	☼	07/30/24 09:35	08/02/24 18:47	1
Arsenic	**9.5**		1.1	0.38	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Barium	**73**		1.1	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Beryllium	**0.58**		0.45	0.10	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Boron	**12**		5.6	0.52	mg/Kg	☼	07/30/24 09:35	08/02/24 18:47	1
Cadmium	<0.22		0.22	0.040	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Calcium	**36000**	**B**	22	3.8	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Chromium	**20**		1.1	0.55	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Cobalt	**14**		0.56	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Copper	**23**		1.1	0.31	mg/Kg	☼	07/30/24 09:35	08/02/24 18:47	1
Iron	**22000**		22	12	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Lead	**24**		0.56	0.26	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Magnesium	**19000**		11	5.5	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Manganese	**360**		1.1	0.16	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Nickel	**31**		1.1	0.32	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Potassium	**2800**		56	20	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Selenium	**0.83**	**J**	1.1	0.66	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Silver	**0.64**		0.56	0.14	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Sodium	**220**	**B**	110	17	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Thallium	**1.9**		1.1	0.56	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Vanadium	**28**		0.56	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1
Zinc	**78**	**B**	2.2	0.98	mg/Kg	☼	07/30/24 09:35	08/02/24 02:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 15:30	08/02/24 02:49	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:30	08/02/24 02:49	1
Iron	**0.22**		0.20	0.20	mg/L		07/23/24 15:30	08/02/24 02:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:30	08/02/24 02:49	1

Client Sample ID: 2861V2-1-B01
Date Collected: 07/18/24 13:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253799-1
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.042**	**B**	0.025	0.010	mg/L		07/23/24 15:30	08/02/24 15:11	1
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:30	08/02/24 02:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.051**		0.050	0.010	mg/L		07/23/24 16:03	08/01/24 19:06	1
Barium	**0.51**		0.50	0.050	mg/L		07/23/24 16:03	08/01/24 19:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 16:03	08/01/24 19:06	1
Boron	**0.15**		0.10	0.050	mg/L		07/23/24 16:03	08/01/24 19:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 16:03	08/01/24 19:06	1
Calcium	**30**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:06	1
Chromium	**0.12**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:06	1
Cobalt	**0.036**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:06	1
Iron	**110**		0.40	0.20	mg/L		07/23/24 16:03	08/01/24 19:06	1
Lead	**0.090**		0.0075	0.0075	mg/L		07/23/24 16:03	08/01/24 19:06	1
Manganese	**0.43**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:06	1
Nickel	**0.14**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:06	1
Potassium	**28**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:06	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 16:03	08/01/24 19:06	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:06	1
Zinc	**0.35**	**J**	0.50	0.020	mg/L		07/23/24 16:03	08/01/24 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:30	08/05/24 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0021**	**J**	0.0060	0.0013	mg/L		07/23/24 16:03	07/25/24 17:28	1
Thallium	**0.0034**		0.0020	0.00057	mg/L		07/23/24 16:03	07/25/24 17:28	1

Method: SW846 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		07/31/24 10:20	08/01/24 10:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.019	0.0079	mg/Kg	☼	07/31/24 16:40	08/01/24 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	☼	07/30/24 12:30	07/31/24 16:22	1
pH (SW846 9045D)	**8.8**		0.2	0.2	SU			07/25/24 13:56	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-253799-1
Project/Site: IDOT - AE8-032A

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD 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.

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 - AE8-032A

Job ID: 500-253799-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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

500-253799 COC

Laboratory

Lab **Eurofins - Chicago**
Address **2417 Bond Street**
University Park, IL 60484
Phone **708-534-5200**
Contact **Jodie Bracken**
email Jodie Bracken@ET EurofinsUS com

Project Name AES - 032A
Project No PTB/WO#: PS0002/32A
TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler: Pablo Fernandez

COC No 1 of 1
Lab Job No.: 500-253799
Sample Temp: 3.8 → 3.5

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal

** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter

*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	286IV2-1-B01	07/18/24	1330	S	X	X					X	X	X	X	X					

Matrix Key:

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

Relinquished by	Date/Time	Received by	Date/Time
	07/19/24		7/19/24 0915
	7/19/24 1305		7/19/24 1305

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 3562 (Joliet Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
6363 Joliet Road (northeast corner of Joliet Road and Brainard Avenue)

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.77458 (Decimal Degrees) Longitude: -87.87749 (-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.): 366

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 3562 (Joliet Road) Latitude: 41.77458 Longitude: - 87.87749

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 2861V2-5-B01 AND 2861V2-5-B02 WERE SAMPLED AT SITE 2861V2-5. SEE TABLE 3b AND FIGURES 2 THROUGH 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 5500-253802-1.

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

I, Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Savo Radulovic
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

Oct 3, 2024
Date:

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 2861V2-5
Vacant Land

Sample ID	2861V2-5-B01		2861V2-5-B01 DUP		2861V2-5-B02-1		2861V2-5-B02-2		2861V2-5-B02-3		**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7		0-7		0-8		8-16		16-27						
Sample Date	7/18/2024		7/18/2024		7/18/2024		7/18/2024		7/18/2024						
PID	0		0		0		0		0						
Sample pH	8.6		8.5		8.5		8.2		7.8		[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
Matrix	Soil		Soil		Soil		Soil		Soil						
Semivolatile Organic Compounds (mg/kg)															
Benzo(a)pyrene	ND		ND		ND		ND		**0.24**	**1,2**	0.09	0.09	0.98	11.4	2.1

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 8:16:31 AM

JOB DESCRIPTION

IDOT - AE8-032A

JOB NUMBER

500-253802-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

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Authorization

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Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B01
Date Collected: 07/18/24 12:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-1
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00062	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00076	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00057	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
1,1-Dichloroethane	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
1,1-Dichloroethene	<0.0015		0.0015	0.00063	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
1,2-Dichloroethane	<0.0038		0.0038	0.00099	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00073	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
2-Hexanone	<0.0038		0.0038	0.0023	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0027	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Acetone	<0.015		0.015	0.0064	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Benzene	<0.0015		0.0015	0.00048	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Bromodichloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Bromoform	<0.0015		0.0015	0.00089	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Bromomethane	<0.0038		0.0038	0.0019	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Carbon disulfide	<0.0038		0.0038	0.00071	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Carbon tetrachloride	<0.0015		0.0015	0.00052	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Chlorobenzene	<0.0015		0.0015	0.00065	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Chloroethane	<0.0038		0.0038	0.0013	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Chloroform	<0.0015		0.0015	0.0011	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Chloromethane	<0.0038		0.0038	0.00074	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00062	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00061	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Dibromochloromethane	<0.0015		0.0015	0.00071	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Ethylbenzene	<0.0015		0.0015	0.00081	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00049	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Methylene Chloride	<0.0038		0.0038	0.0016	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Styrene	<0.0015		0.0015	0.00069	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Tetrachloroethene	<0.0015		0.0015	0.00086	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Toluene	<0.0015		0.0015	0.00031	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00073	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Trichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Vinyl chloride	<0.0015		0.0015	0.00063	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1
Xylenes, Total	<0.0031		0.0031	0.00053	mg/Kg	☼	07/20/24 07:41	07/23/24 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 134*	*07/20/24 07:41*	*07/23/24 13:44*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*07/20/24 07:41*	*07/23/24 13:44*	*1*
Dibromofluoromethane (Surr)	*116*		*75 - 126*	*07/20/24 07:41*	*07/23/24 13:44*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*07/20/24 07:41*	*07/23/24 13:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B01
Date Collected: 07/18/24 12:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-1
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2,4-Dimethylphenol	<0.39		0.39	0.087	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2,4-Dinitrophenol	<0.78		0.78	0.22	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2-Chloronaphthalene	<0.20		0.20	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2-Chlorophenol	<0.20		0.20	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2-Methylnaphthalene	<0.078		0.078	0.0078	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2-Methylphenol	<0.20		0.20	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
2-Nitrophenol	<0.39		0.39	0.026	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
3 & 4 Methylphenol	<0.20		0.20	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.22	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
4-Chloroaniline	<0.78		0.78	0.41	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
4-Nitrophenol	<0.78		0.78	0.14	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Acenaphthene	<0.039		0.039	0.0079	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Acenaphthylene	<0.039		0.039	0.0066	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Anthracene	<0.039		0.039	0.0079	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Benzo[a]pyrene	<0.039		0.039	0.037	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Benzo[b]fluoranthene	<0.039		0.039	0.037	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Benzo[g,h,i]perylene	<0.039		0.039	0.0084	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Butyl benzyl phthalate	<0.20		0.20	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Carbazole	<0.20		0.20	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Chrysene	<0.039		0.039	0.010	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Dimethyl phthalate	<0.20		0.20	0.0084	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Fluoranthene	<0.039		0.039	0.0090	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Fluorene	<0.039		0.039	0.011	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Hexachlorobenzene	<0.078		0.078	0.0074	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Hexachlorocyclopentadiene	<0.78		0.78	0.41	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Hexachloroethane	<0.20		0.20	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B01
Date Collected: 07/18/24 12:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-1
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.038	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Naphthalene	<0.039		0.039	0.0070	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.0076	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Pentachlorophenol	<0.78		0.78	0.097	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Phenanthrene	<0.039		0.039	0.0084	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Phenol	<0.20		0.20	0.017	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1
Pyrene	<0.039		0.039	0.011	mg/Kg	☼	07/25/24 15:43	07/26/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*31 - 143*	*07/25/24 15:43*	*07/26/24 16:53*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*07/25/24 15:43*	*07/26/24 16:53*	*1*
2-Fluorophenol (Surr)	*71*		*31 - 166*	*07/25/24 15:43*	*07/26/24 16:53*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*07/25/24 15:43*	*07/26/24 16:53*	*1*
Phenol-d5 (Surr)	*74*		*30 - 153*	*07/25/24 15:43*	*07/26/24 16:53*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*07/25/24 15:43*	*07/26/24 16:53*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.44	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Arsenic	**8.6**		1.1	0.39	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Barium	**67**		1.1	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Beryllium	**0.88**		0.45	0.11	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Boron	**18**	**B**	5.7	0.53	mg/Kg	☼	07/30/24 15:16	08/01/24 19:40	1
Cadmium	**0.13**	**J**	0.23	0.041	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Calcium	**33000**	**B**	23	3.8	mg/Kg	☼	07/30/24 15:16	08/01/24 19:40	1
Chromium	**22**		1.1	0.56	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Cobalt	**14**		0.57	0.15	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Copper	**29**		1.1	0.32	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Iron	**23000**		23	12	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Lead	**18**		0.57	0.26	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Magnesium	**20000**		11	5.6	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Manganese	**310**		1.1	0.16	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Nickel	**40**		1.1	0.33	mg/Kg	☼	07/30/24 15:16	08/01/24 19:40	1
Potassium	**2800**		57	20	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Selenium	<1.1		1.1	0.67	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Silver	<0.57		0.57	0.15	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Sodium	**190**		110	17	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Thallium	**1.1**		1.1	0.57	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Vanadium	**29**		0.57	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 01:17	1
Zinc	**58**		2.3	1.0	mg/Kg	☼	07/30/24 15:16	08/01/24 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		07/23/24 15:30	08/02/24 03:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:30	08/02/24 03:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B01

Date Collected: 07/18/24 12:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-1

Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 16:03	08/01/24 19:45	1
Barium	**0.078**	**J**	0.50	0.050	mg/L		07/23/24 16:03	08/01/24 19:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 16:03	08/01/24 19:45	1
Boron	<0.10		0.10	0.050	mg/L		07/23/24 16:03	08/01/24 19:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 16:03	08/01/24 19:45	1
Calcium	**8.5**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:45	1
Chromium	**0.022**	**J**	0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:45	1
Cobalt	<0.025		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:45	1
Iron	**16**		0.40	0.20	mg/L		07/23/24 16:03	08/01/24 19:45	1
Lead	**0.0081**		0.0075	0.0075	mg/L		07/23/24 16:03	08/01/24 19:45	1
Manganese	**0.051**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:45	1
Nickel	**0.018**	**J**	0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:45	1
Potassium	**5.7**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:45	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 16:03	08/01/24 19:45	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:45	1
Zinc	**0.056**	**J**	0.50	0.020	mg/L		07/23/24 16:03	08/01/24 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 16:03	07/25/24 18:06	1
Thallium	**0.00080**	**J**	0.0020	0.00057	mg/L		07/23/24 16:03	07/25/24 18:06	1

Method: SW846 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		07/31/24 10:20	08/01/24 10:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.018	0.0076	mg/Kg	☼	07/31/24 16:40	08/01/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.14**	**J**	0.28	0.14	mg/Kg	☼	08/01/24 09:07	08/01/24 15:29	1
pH (SW846 9045D)	**8.6**		0.2	0.2	SU			07/25/24 14:11	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B01 Dup

Date Collected: 07/18/24 12:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-2

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00070	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00053	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
1,1-Dichloroethane	<0.0014		0.0014	0.00053	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
1,1-Dichloroethene	<0.0014		0.0014	0.00058	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
1,2-Dichloroethane	<0.0036		0.0036	0.00092	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00068	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
2-Hexanone	<0.0036		0.0036	0.0022	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0025	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Acetone	<0.014		0.014	0.0060	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Benzene	<0.0014		0.0014	0.00045	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Bromodichloromethane	<0.0014		0.0014	0.00046	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Bromoform	<0.0014		0.0014	0.00083	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Bromomethane	<0.0036		0.0036	0.0017	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Carbon disulfide	<0.0036		0.0036	0.00065	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Carbon tetrachloride	<0.0014		0.0014	0.00048	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Chlorobenzene	<0.0014		0.0014	0.00060	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Chloroethane	<0.0036		0.0036	0.0012	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Chloromethane	<0.0036		0.0036	0.00069	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Dibromochloromethane	<0.0014		0.0014	0.00066	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Ethylbenzene	<0.0014		0.0014	0.00075	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00046	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Methylene Chloride	<0.0036		0.0036	0.0015	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Styrene	<0.0014		0.0014	0.00064	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Tetrachloroethene	<0.0014		0.0014	0.00080	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Toluene	<0.0014		0.0014	0.00029	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00054	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00068	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Trichloroethene	<0.0014		0.0014	0.00039	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Vinyl chloride	<0.0014		0.0014	0.00058	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1
Xylenes, Total	<0.0028		0.0028	0.00049	mg/Kg	☼	07/20/24 07:41	07/23/24 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 134*	*07/20/24 07:41*	*07/23/24 14:08*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*07/20/24 07:41*	*07/23/24 14:08*	*1*
Dibromofluoromethane (Surr)	*119*		*75 - 126*	*07/20/24 07:41*	*07/23/24 14:08*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*07/20/24 07:41*	*07/23/24 14:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19	F1	0.19	0.027	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
1,2-Dichlorobenzene	<0.19	F1	0.19	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
1,3-Dichlorobenzene	<0.19	F1	0.19	0.017	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
1,4-Dichlorobenzene	<0.19	F1	0.19	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B01 Dup
Date Collected: 07/18/24 12:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-2
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2-Methylnaphthalene	<0.077	F1	0.077	0.0077	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.22	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Acenaphthene	<0.038		0.038	0.0078	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0083	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Fluoranthene	<0.038		0.038	0.0089	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Hexachloroethane	<0.19	F1	0.19	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B01 Dup
Date Collected: 07/18/24 12:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-2
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.037	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Phenol	<0.19		0.19	0.017	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1
Pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/25/24 15:43	07/26/24 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*31 - 143*	*07/25/24 15:43*	*07/26/24 23:05*	*1*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*07/25/24 15:43*	*07/26/24 23:05*	*1*
2-Fluorophenol (Surr)	*72*		*31 - 166*	*07/25/24 15:43*	*07/26/24 23:05*	*1*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*	*07/25/24 15:43*	*07/26/24 23:05*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*07/25/24 15:43*	*07/26/24 23:05*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*07/25/24 15:43*	*07/26/24 23:05*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Arsenic	**9.2**		1.0	0.34	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Barium	**33**		1.0	0.11	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Beryllium	**0.66**		0.40	0.094	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Boron	**16**	**B**	5.0	0.47	mg/Kg	☼	07/30/24 15:16	08/01/24 19:44	1
Cadmium	**0.18**	**J**	0.20	0.036	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Calcium	**49000**	**B**	20	3.4	mg/Kg	☼	07/30/24 15:16	08/01/24 19:44	1
Chromium	**16**		1.0	0.50	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Cobalt	**14**		0.50	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Copper	**23**		1.0	0.28	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Iron	**19000**		20	10	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Lead	**17**		0.50	0.23	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Magnesium	**26000**		10	5.0	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Manganese	**420**		1.0	0.15	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Nickel	**39**		1.0	0.29	mg/Kg	☼	07/30/24 15:16	08/01/24 19:44	1
Potassium	**2700**		50	18	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Selenium	<1.0		1.0	0.59	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Silver	<0.50		0.50	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Sodium	**210**		100	15	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Thallium	**1.7**		1.0	0.50	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Vanadium	**20**		0.50	0.12	mg/Kg	☼	07/30/24 15:16	08/01/24 01:22	1
Zinc	**68**		2.0	0.88	mg/Kg	☼	07/30/24 15:16	08/01/24 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		07/23/24 15:30	08/02/24 03:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:30	08/02/24 03:35	1
Manganese	**0.47**	**B**	0.025	0.010	mg/L		07/23/24 15:30	08/02/24 03:35	1

Client Sample ID: 2861V2-5-B01 Dup

Date Collected: 07/18/24 12:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-2

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.033**	**J**	0.050	0.010	mg/L		07/23/24 16:03	08/01/24 19:49	1
Barium	**0.26**	**J**	0.50	0.050	mg/L		07/23/24 16:03	08/01/24 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 16:03	08/01/24 19:49	1
Boron	**0.13**		0.10	0.050	mg/L		07/23/24 16:03	08/01/24 19:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 16:03	08/01/24 19:49	1
Calcium	**22**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:49	1
Chromium	**0.090**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:49	1
Cobalt	**0.019**	**J**	0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:49	1
Iron	**75**		0.40	0.20	mg/L		07/23/24 16:03	08/01/24 19:49	1
Lead	**0.042**		0.0075	0.0075	mg/L		07/23/24 16:03	08/01/24 19:49	1
Manganese	**0.23**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:49	1
Nickel	**0.079**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:49	1
Potassium	**24**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:49	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 16:03	08/01/24 19:49	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:49	1
Zinc	**0.24**	**J**	0.50	0.020	mg/L		07/23/24 16:03	08/01/24 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:30	08/05/24 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 16:03	07/25/24 18:09	1
Thallium	**0.0022**		0.0020	0.00057	mg/L		07/23/24 16:03	07/25/24 18:09	1

Method: SW846 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		07/31/24 10:20	08/01/24 10:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.018	0.0075	mg/Kg	☼	07/31/24 16:40	08/01/24 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.16**	**J**	0.26	0.13	mg/Kg	☼	08/01/24 09:07	08/01/24 15:31	1
pH (SW846 9045D)	**8.5**		0.2	0.2	SU			07/25/24 14:16	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-1
Date Collected: 07/18/24 12:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-3
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00059	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00072	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00055	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
1,1-Dichloroethane	<0.0015		0.0015	0.00055	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
1,1-Dichloroethene	<0.0015		0.0015	0.00060	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
1,2-Dichloroethane	<0.0036		0.0036	0.00094	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00070	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
2-Hexanone	<0.0036		0.0036	0.0022	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0026	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Acetone	<0.015		0.015	0.0061	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Benzene	<0.0015		0.0015	0.00046	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Bromodichloromethane	<0.0015		0.0015	0.00047	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Bromoform	<0.0015		0.0015	0.00085	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Bromomethane	<0.0036		0.0036	0.0018	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Carbon disulfide	<0.0036		0.0036	0.00067	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Carbon tetrachloride	<0.0015		0.0015	0.00050	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Chlorobenzene	<0.0015		0.0015	0.00062	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Chloroethane	<0.0036		0.0036	0.0012	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Chloroform	<0.0015		0.0015	0.0010	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Chloromethane	<0.0036		0.0036	0.00071	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00059	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Dibromochloromethane	<0.0015		0.0015	0.00068	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Ethylbenzene	<0.0015		0.0015	0.00077	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00047	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Methylene Chloride	<0.0036		0.0036	0.0016	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Styrene	<0.0015		0.0015	0.00066	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Tetrachloroethene	<0.0015		0.0015	0.00082	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Toluene	<0.0015		0.0015	0.00029	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00055	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00070	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Trichloroethene	<0.0015		0.0015	0.00040	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Vinyl chloride	<0.0015		0.0015	0.00060	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1
Xylenes, Total	<0.0029		0.0029	0.00050	mg/Kg	☼	07/20/24 07:41	07/23/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 134*	*07/20/24 07:41*	*07/23/24 14:32*	*1*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*07/20/24 07:41*	*07/23/24 14:32*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 126*	*07/20/24 07:41*	*07/23/24 14:32*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*07/20/24 07:41*	*07/23/24 14:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1

Client Sample ID: 2861V2-5-B02-1
Date Collected: 07/18/24 12:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-3
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2,4-Dimethylphenol	<0.39		0.39	0.089	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2,4-Dinitrophenol	<0.80		0.80	0.23	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2-Methylnaphthalene	<0.080		0.080	0.0080	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.22	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
4-Chloroaniline	<0.80		0.80	0.42	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
4-Nitrophenol	<0.80		0.80	0.15	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Acenaphthene	<0.039		0.039	0.0081	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Acenaphthylene	<0.039		0.039	0.0067	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Anthracene	<0.039		0.039	0.0081	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Benzo[a]anthracene	**0.011**	**J**	0.039	0.0084	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Benzo[b]fluoranthene	<0.039		0.039	0.038	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Benzo[g,h,i]perylene	**0.015**	**J**	0.039	0.0086	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Chrysene	**0.018**	**J**	0.039	0.010	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Dimethyl phthalate	<0.20		0.20	0.0086	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Di-n-octyl phthalate	<0.39		0.39	0.28	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Fluoranthene	**0.023**	**J**	0.039	0.0092	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Hexachlorobenzene	<0.080		0.080	0.0076	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Hexachlorocyclopentadiene	<0.80		0.80	0.42	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-1
Date Collected: 07/18/24 12:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-3
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.039	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Naphthalene	<0.039		0.039	0.0072	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Nitrobenzene	<0.039		0.039	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.0078	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Pentachlorophenol	<0.80		0.80	0.099	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Phenanthrene	**0.013**	**J**	0.039	0.0086	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Phenol	<0.20		0.20	0.017	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1
Pyrene	**0.022**	**J**	0.039	0.011	mg/Kg	☼	07/25/24 15:43	07/26/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*158*	*S1+*	*31 - 143*	*07/25/24 15:43*	*07/26/24 17:16*	*1*
2-Fluorobiphenyl (Surr)	*149*	*S1+*	*43 - 145*	*07/25/24 15:43*	*07/26/24 17:16*	*1*
2-Fluorophenol (Surr)	*137*		*31 - 166*	*07/25/24 15:43*	*07/26/24 17:16*	*1*
Nitrobenzene-d5 (Surr)	*135*		*37 - 147*	*07/25/24 15:43*	*07/26/24 17:16*	*1*
Phenol-d5 (Surr)	*143*		*30 - 153*	*07/25/24 15:43*	*07/26/24 17:16*	*1*
Terphenyl-d14 (Surr)	*171*	*S1+*	*42 - 157*	*07/25/24 15:43*	*07/26/24 17:16*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.42	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Arsenic	**9.6**		1.1	0.37	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Barium	**44**		1.1	0.12	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Beryllium	**0.64**		0.43	0.10	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Boron	**14**	**B**	5.4	0.51	mg/Kg	☼	07/30/24 15:16	08/01/24 19:48	1
Cadmium	**0.16**	**J**	0.22	0.039	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Calcium	**53000**	**B**	22	3.7	mg/Kg	☼	07/30/24 15:16	08/01/24 19:48	1
Chromium	**16**		1.1	0.54	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Cobalt	**11**		0.54	0.14	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Copper	**28**		1.1	0.30	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Iron	**21000**		22	11	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Lead	**18**		0.54	0.25	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Magnesium	**24000**		11	5.4	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Manganese	**360**		1.1	0.16	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Nickel	**33**		1.1	0.32	mg/Kg	☼	07/30/24 15:16	08/01/24 19:48	1
Potassium	**2400**		54	19	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Selenium	<1.1		1.1	0.64	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Silver	<0.54		0.54	0.14	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Sodium	**120**		110	16	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Thallium	**1.6**		1.1	0.54	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Vanadium	**22**		0.54	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 01:26	1
Zinc	**58**		2.2	0.95	mg/Kg	☼	07/30/24 15:16	08/01/24 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		07/25/24 14:55	08/01/24 23:48	1
Iron	**0.45**		0.40	0.20	mg/L		07/25/24 14:55	08/01/24 23:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/25/24 14:55	08/01/24 23:48	1
Manganese	**2.2**		0.025	0.010	mg/L		07/25/24 14:55	08/01/24 23:48	1

Client Sample ID: 2861V2-5-B02-1
Date Collected: 07/18/24 12:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-3
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.029		0.025	0.010	mg/L		07/25/24 14:55	08/01/24 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.041	J	0.050	0.010	mg/L		07/25/24 14:59	08/02/24 04:03	1
Barium	0.34	J	0.50	0.050	mg/L		07/25/24 14:59	08/02/24 04:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/25/24 14:59	08/02/24 04:03	1
Boron	0.14		0.10	0.050	mg/L		07/25/24 14:59	08/02/24 16:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/25/24 14:59	08/02/24 04:03	1
Calcium	34		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 04:03	1
Chromium	0.11		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:03	1
Cobalt	0.031		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:03	1
Iron	110		0.40	0.20	mg/L		07/25/24 14:59	08/02/24 04:03	1
Lead	0.078		0.0075	0.0075	mg/L		07/25/24 14:59	08/02/24 04:03	1
Manganese	0.39		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:03	1
Nickel	0.13		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:03	1
Potassium	26		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 04:03	1
Selenium	<0.050		0.050	0.020	mg/L		07/25/24 14:59	08/02/24 04:03	1
Silver	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:03	1
Zinc	0.30	J	0.50	0.020	mg/L		07/25/24 14:59	08/02/24 04:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/25/24 14:55	08/05/24 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0019	J	0.0060	0.0013	mg/L		07/25/24 14:59	07/31/24 17:25	1
Thallium	0.0034		0.0020	0.00057	mg/L		07/25/24 14:59	07/31/24 17:25	1

Method: SW846 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		08/01/24 08:10	08/01/24 15:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0076	mg/Kg	☼	07/31/24 16:40	08/01/24 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.20	J	0.28	0.14	mg/Kg	☼	08/01/24 09:07	08/01/24 15:50	1
pH (SW846 9045D)	8.5		0.2	0.2	SU			07/25/24 14:18	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-2
Date Collected: 07/18/24 12:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-4
Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00062	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00076	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
1,1-Dichloroethane	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
1,1-Dichloroethene	<0.0015		0.0015	0.00063	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
1,2-Dichloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00074	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
2-Hexanone	<0.0038		0.0038	0.0023	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0027	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Acetone	<0.015		0.015	0.0065	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Benzene	<0.0015		0.0015	0.00048	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Bromodichloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Bromoform	<0.0015		0.0015	0.00090	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Bromomethane	<0.0038		0.0038	0.0019	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Carbon disulfide	<0.0038		0.0038	0.00071	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Carbon tetrachloride	<0.0015		0.0015	0.00052	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Chlorobenzene	<0.0015		0.0015	0.00065	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Chloroethane	<0.0038		0.0038	0.0013	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Chloroform	<0.0015		0.0015	0.0011	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Chloromethane	<0.0038		0.0038	0.00074	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00062	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00062	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Dibromochloromethane	<0.0015		0.0015	0.00071	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Ethylbenzene	<0.0015		0.0015	0.00081	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00050	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Methylene Chloride	<0.0038		0.0038	0.0016	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Styrene	<0.0015		0.0015	0.00069	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Tetrachloroethene	<0.0015		0.0015	0.00086	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Toluene	<0.0015		0.0015	0.00031	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00074	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Trichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Vinyl chloride	<0.0015		0.0015	0.00063	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1
Xylenes, Total	<0.0031		0.0031	0.00053	mg/Kg	☼	07/20/24 07:41	07/23/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 134*	*07/20/24 07:41*	*07/23/24 14:57*	*1*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*07/20/24 07:41*	*07/23/24 14:57*	*1*
Dibromofluoromethane (Surr)	*119*		*75 - 126*	*07/20/24 07:41*	*07/23/24 14:57*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*07/20/24 07:41*	*07/23/24 14:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.030	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
1,3-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
1,4-Dichlorobenzene	<0.21		0.21	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.030	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1

Client Sample ID: 2861V2-5-B02-2
Date Collected: 07/18/24 12:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-4
Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2,4-Dichlorophenol	<0.41		0.41	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2,4-Dimethylphenol	<0.41		0.41	0.093	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2,4-Dinitrophenol	<0.84		0.84	0.24	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2,4-Dinitrotoluene	<0.21		0.21	0.024	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2-Chloronaphthalene	<0.21		0.21	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2-Methylnaphthalene	<0.084		0.084	0.0084	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2-Nitroaniline	<0.21		0.21	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
2-Nitrophenol	<0.41		0.41	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
3 & 4 Methylphenol	<0.21		0.21	0.031	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
3-Nitroaniline	<0.41		0.41	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.24	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.029	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
4-Chloro-3-methylphenol	<0.41		0.41	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
4-Chloroaniline	<0.84		0.84	0.44	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
4-Nitroaniline	<0.41		0.41	0.031	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
4-Nitrophenol	<0.84		0.84	0.15	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Acenaphthene	<0.041		0.041	0.0085	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Acenaphthylene	<0.041		0.041	0.0071	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Anthracene	<0.041		0.041	0.0085	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Benzo[a]anthracene	**0.030**	**J**	0.041	0.0089	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Benzo[a]pyrene	<0.041		0.041	0.040	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Benzo[b]fluoranthene	**0.043**		0.041	0.040	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Benzo[g,h,i]perylene	**0.032**	**J**	0.041	0.0090	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Benzo[k]fluoranthene	**0.031**	**J**	0.041	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Butyl benzyl phthalate	<0.21		0.21	0.021	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Carbazole	<0.21		0.21	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Chrysene	**0.040**	**J**	0.041	0.011	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Dimethyl phthalate	<0.21		0.21	0.0091	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Di-n-octyl phthalate	<0.41		0.41	0.29	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Fluoranthene	**0.067**		0.041	0.0097	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Fluorene	<0.041		0.041	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Hexachlorobenzene	<0.084		0.084	0.0080	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Hexachlorobutadiene	<0.21		0.21	0.024	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Hexachlorocyclopentadiene	<0.84		0.84	0.44	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Hexachloroethane	<0.21		0.21	0.021	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-2
Date Collected: 07/18/24 12:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-4
Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.041	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Isophorone	<0.21		0.21	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Naphthalene	<0.041		0.041	0.0075	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.0082	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
N-Nitrosodiphenylamine	<0.21		0.21	0.025	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Pentachlorophenol	<0.84		0.84	0.10	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Phenanthrene	**0.025**	**J**	0.041	0.0091	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Phenol	<0.21		0.21	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1
Pyrene	**0.054**		0.041	0.011	mg/Kg	☼	07/25/24 15:43	07/26/24 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*31 - 143*	*07/25/24 15:43*	*07/26/24 17:40*	*1*
2-Fluorobiphenyl (Surr)	*83*		*43 - 145*	*07/25/24 15:43*	*07/26/24 17:40*	*1*
2-Fluorophenol (Surr)	*75*		*31 - 166*	*07/25/24 15:43*	*07/26/24 17:40*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*07/25/24 15:43*	*07/26/24 17:40*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*07/25/24 15:43*	*07/26/24 17:40*	*1*
Terphenyl-d14 (Surr)	*91*		*42 - 157*	*07/25/24 15:43*	*07/26/24 17:40*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.44	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Arsenic	**11**		1.1	0.38	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Barium	**78**		1.1	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Beryllium	**0.80**		0.45	0.10	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Boron	**15**	**B**	5.6	0.52	mg/Kg	☼	07/30/24 15:16	08/01/24 19:53	1
Cadmium	**0.14**	**J**	0.22	0.040	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Calcium	**21000**	**B**	22	3.8	mg/Kg	☼	07/30/24 15:16	08/01/24 19:53	1
Chromium	**22**		1.1	0.56	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Cobalt	**14**		0.56	0.15	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Copper	**27**		1.1	0.31	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Iron	**25000**		22	12	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Lead	**34**		0.56	0.26	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Magnesium	**13000**		11	5.6	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Manganese	**340**		1.1	0.16	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Nickel	**38**		1.1	0.33	mg/Kg	☼	07/30/24 15:16	08/01/24 19:53	1
Potassium	**2900**		56	20	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Selenium	<1.1		1.1	0.66	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Silver	<0.56		0.56	0.14	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Sodium	**130**		110	17	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Thallium	**1.2**		1.1	0.56	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Vanadium	**32**		0.56	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 01:39	1
Zinc	**72**		2.2	0.99	mg/Kg	☼	07/30/24 15:16	08/01/24 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.9**		0.20	0.20	mg/L		07/25/24 14:59	08/02/24 05:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/25/24 14:59	08/02/24 05:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-2

Date Collected: 07/18/24 12:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-4

Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/25/24 14:59	08/02/24 04:16	1
Barium	<0.50		0.50	0.050	mg/L		07/25/24 14:59	08/02/24 04:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/25/24 14:59	08/02/24 04:16	1
Boron	<0.10		0.10	0.050	mg/L		07/25/24 14:59	08/02/24 16:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/25/24 14:59	08/02/24 04:16	1
Calcium	**17**		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 04:16	1
Chromium	**0.011**	**J**	0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:16	1
Cobalt	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:16	1
Iron	**7.1**		0.40	0.20	mg/L		07/25/24 14:59	08/02/24 04:16	1
Lead	**0.0092**		0.0075	0.0075	mg/L		07/25/24 14:59	08/02/24 04:16	1
Manganese	**0.038**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:16	1
Nickel	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:16	1
Potassium	**3.0**		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 04:16	1
Selenium	<0.050		0.050	0.020	mg/L		07/25/24 14:59	08/02/24 04:16	1
Silver	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:16	1
Zinc	**0.023**	**J**	0.50	0.020	mg/L		07/25/24 14:59	08/02/24 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/25/24 14:59	07/31/24 17:29	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/25/24 14:59	07/31/24 17:29	1

Method: SW846 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		08/01/24 08:10	08/01/24 15:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.020	0.0082	mg/Kg	☼	07/31/24 16:40	08/01/24 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.18**	**J**	0.28	0.14	mg/Kg	☼	08/01/24 09:07	08/01/24 15:52	1
pH (SW846 9045D)	**8.2**		0.2	0.2	SU			07/25/24 14:27	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-3
Date Collected: 07/18/24 13:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-5
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00067	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00082	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00062	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
1,1-Dichloroethane	<0.0017		0.0017	0.00062	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
1,1-Dichloroethene	<0.0017		0.0017	0.00068	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
1,2-Dichloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00080	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
2-Butanone (MEK)	**0.0036**	**J**	0.0041	0.0018	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
2-Hexanone	<0.0041		0.0041	0.0025	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0029	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Acetone	**0.023**		0.017	0.0070	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Benzene	<0.0017		0.0017	0.00052	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Bromodichloromethane	<0.0017		0.0017	0.00053	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Bromoform	<0.0017		0.0017	0.00097	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Bromomethane	<0.0041		0.0041	0.0020	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Carbon disulfide	<0.0041		0.0041	0.00076	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Carbon tetrachloride	<0.0017		0.0017	0.00056	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Chlorobenzene	<0.0017		0.0017	0.00070	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Chloroethane	<0.0041		0.0041	0.0014	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Chloroform	<0.0017		0.0017	0.0012	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Chloromethane	<0.0041		0.0041	0.00080	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00067	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00067	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Dibromochloromethane	<0.0017		0.0017	0.00077	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Ethylbenzene	<0.0017		0.0017	0.00087	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00054	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Methylene Chloride	<0.0041		0.0041	0.0018	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Styrene	<0.0017		0.0017	0.00075	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Tetrachloroethene	<0.0017		0.0017	0.00093	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Toluene	<0.0017		0.0017	0.00033	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00063	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00080	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Trichloroethene	<0.0017		0.0017	0.00045	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Vinyl chloride	<0.0017		0.0017	0.00068	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1
Xylenes, Total	<0.0033		0.0033	0.00057	mg/Kg	☼	07/20/24 07:41	07/23/24 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 134*	*07/20/24 07:41*	*07/23/24 15:21*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*07/20/24 07:41*	*07/23/24 15:21*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 126*	*07/20/24 07:41*	*07/23/24 15:21*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*07/20/24 07:41*	*07/23/24 15:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.029	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
1,2-Dichlorobenzene	<0.20		0.20	0.017	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-3
Date Collected: 07/18/24 13:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-5
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2,4-Dimethylphenol	<0.40		0.40	0.091	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2,4-Dinitrophenol	<0.82		0.82	0.23	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2-Methylnaphthalene	<0.082		0.082	0.0081	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2-Nitroaniline	<0.20		0.20	0.022	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
2-Nitrophenol	<0.40		0.40	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
3 & 4 Methylphenol	<0.20		0.20	0.030	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.23	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.028	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
4-Chloroaniline	<0.82		0.82	0.43	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
4-Nitrophenol	<0.82		0.82	0.15	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Acenaphthene	**0.011**	**J**	0.040	0.0083	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Acenaphthylene	<0.040		0.040	0.0069	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Anthracene	**0.051**		0.040	0.0083	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Benzo[a]anthracene	**0.20**		0.040	0.0086	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Benzo[a]pyrene	**0.24**		0.040	0.039	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Benzo[b]fluoranthene	**0.23**		0.040	0.039	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Benzo[g,h,i]perylene	**0.17**		0.040	0.0088	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Benzo[k]fluoranthene	**0.20**		0.040	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Carbazole	**0.032**	**J**	0.20	0.016	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Chrysene	**0.24**		0.040	0.011	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Dibenz(a,h)anthracene	**0.044**		0.040	0.040	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Diethyl phthalate	<0.20		0.20	0.019	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Dimethyl phthalate	<0.20		0.20	0.0088	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Fluoranthene	**0.47**		0.040	0.0094	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Hexachlorobenzene	<0.082		0.082	0.0078	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Hexachlorocyclopentadiene	<0.82		0.82	0.43	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-3
Date Collected: 07/18/24 13:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-5
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.18**		0.040	0.040	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Isophorone	<0.20		0.20	0.021	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Naphthalene	<0.040		0.040	0.0073	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.0080	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Pentachlorophenol	<0.82		0.82	0.10	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Phenanthrene	**0.23**		0.040	0.0088	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Phenol	<0.20		0.20	0.018	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1
Pyrene	**0.38**		0.040	0.011	mg/Kg	☼	07/25/24 15:43	07/26/24 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*31 - 143*	*07/25/24 15:43*	*07/26/24 18:05*	*1*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*	*07/25/24 15:43*	*07/26/24 18:05*	*1*
2-Fluorophenol (Surr)	*75*		*31 - 166*	*07/25/24 15:43*	*07/26/24 18:05*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*07/25/24 15:43*	*07/26/24 18:05*	*1*
Phenol-d5 (Surr)	*78*		*30 - 153*	*07/25/24 15:43*	*07/26/24 18:05*	*1*
Terphenyl-d14 (Surr)	*88*		*42 - 157*	*07/25/24 15:43*	*07/26/24 18:05*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.4		2.4	0.46	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Arsenic	**6.3**		1.2	0.40	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Barium	**63**		1.2	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Beryllium	**0.69**		0.47	0.11	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Boron	**12**	**B**	5.9	0.55	mg/Kg	☼	07/30/24 15:16	08/01/24 19:57	1
Cadmium	**0.33**		0.24	0.043	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Calcium	**89000**	**B**	24	4.0	mg/Kg	☼	07/30/24 15:16	08/01/24 19:57	1
Chromium	**13**		1.2	0.59	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Cobalt	**7.6**		0.59	0.15	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Copper	**18**		1.2	0.33	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Iron	**13000**		24	12	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Lead	**55**		0.59	0.27	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Magnesium	**54000**		12	5.9	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Manganese	**290**		1.2	0.17	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Nickel	**19**		1.2	0.34	mg/Kg	☼	07/30/24 15:16	08/01/24 19:57	1
Potassium	**1800**		59	21	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Selenium	<1.2		1.2	0.70	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Silver	<0.59		0.59	0.15	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Sodium	**200**		120	18	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Thallium	**1.0**	**J**	1.2	0.59	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Vanadium	**22**		0.59	0.14	mg/Kg	☼	07/30/24 15:16	08/01/24 01:43	1
Zinc	**70**		2.4	1.0	mg/Kg	☼	07/30/24 15:16	08/01/24 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.99**		0.20	0.20	mg/L		07/25/24 14:59	08/02/24 05:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/25/24 14:59	08/02/24 05:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253802-1

Client Sample ID: 2861V2-5-B02-3

Date Collected: 07/18/24 13:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253802-5

Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/25/24 14:59	08/02/24 04:21	1
Barium	**0.10**	**J**	0.50	0.050	mg/L		07/25/24 14:59	08/02/24 04:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/25/24 14:59	08/02/24 04:21	1
Boron	**0.057**	**J**	0.10	0.050	mg/L		07/25/24 14:59	08/02/24 16:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/25/24 14:59	08/02/24 04:21	1
Calcium	**26**		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 04:21	1
Chromium	**0.018**	**J**	0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:21	1
Cobalt	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:21	1
Iron	**13**		0.40	0.20	mg/L		07/25/24 14:59	08/02/24 04:21	1
Lead	**0.029**		0.0075	0.0075	mg/L		07/25/24 14:59	08/02/24 04:21	1
Manganese	**0.062**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:21	1
Nickel	**0.016**	**J**	0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:21	1
Potassium	**4.8**		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 04:21	1
Selenium	<0.050		0.050	0.020	mg/L		07/25/24 14:59	08/02/24 04:21	1
Silver	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:21	1
Zinc	**0.045**	**J**	0.50	0.020	mg/L		07/25/24 14:59	08/02/24 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0025**	**J**	0.0060	0.0013	mg/L		07/25/24 14:59	07/31/24 17:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/25/24 14:59	07/31/24 17:33	1

Method: SW846 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		08/01/24 08:10	08/01/24 15:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.055**		0.020	0.0083	mg/Kg	☼	07/31/24 16:40	08/01/24 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.27**		0.26	0.13	mg/Kg	☼	08/01/24 09:07	08/01/24 15:53	1
pH (SW846 9045D)	**7.8**		0.2	0.2	SU			07/25/24 14:30	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-253802-1
Project/Site: IDOT - AE8-032A

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
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.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

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

General Chemistry

Qualifier	Qualifier Description
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 - AE8-032A

Job ID: 500-253802-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

500-253802 COC

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 **Eurofins - Chicago**
Address **2417 Bond Street**
University Park, IL 60484
Phone **708-534-5200**
Contact **Jodie Bracken**
email Jodie Bracken@ET EurofinsUS com

Project Name AE8 - 032A
Project No PTB/WO #: 195 0002/32A
TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler: Pablo Fernandez

COC No 1 of 1
Lab Job No.: 500-253802
Sample Temp: 4.9 → 4.6

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	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	2861V2-5-B01	07/18/24	1200	S	X	X					X	X	X	X	X					
2	2861V2-5B01DUP	07/18/24	1215	S	↓	↓					↓	↓	↓	↓	↓					
3	2861V2-5-B02-1	07/18/24	1230	S																
4	2861V2-5-B02-2	07/18/24	1245	S																
5	2861V2-5-B02-3	07/18/24	1300	S																
6	2861V2-5-B03	07/18/24	1315	S	↓	↓					↓	↓	↓	↓	↓					

Relinquished by	Date/Time 07/19/24	Received by	Date/Time 7/19/24 0945
Relinquished by	Date/Time 7/19/24 1305	Received by	Date/Time 7/19/24 1305
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 3562 (Joliet Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
113-129 Hawthorne Dr., 126-128 Country Dr., and 5-135 Court Dr. (southwest quadrant of Joliet Road and Brainard Avenue)

City: Unincorporated State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.77389 (Decimal Degrees) Longitude: -87.87829 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0310575064 BOW: BOA:

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

Estimated Volume of debris (cu. Yd.): 74

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 3562 (Joliet Road) Latitude: 41.77389 Longitude: - 87.87829

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 2861V2-11-B01 WAS SAMPLED AT SITE 2861V2-11. 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253796-1.

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

I, Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Savo Radulovic
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

Oct 3, 2024
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 2861V2-11
LaGrange Estates

Sample ID	2861V2-11-B01	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3					
Sample Date	7/18/2024	[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	8.7					
Matrix	Soil					
No Contaminants of Concern Noted.						

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 8:11:59 AM

JOB DESCRIPTION

IDOT - AE8-032A

JOB NUMBER

500-253796-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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

Authorization

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(708)534-5200

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253796-1

Client Sample ID: 2861V2-11-B01
Date Collected: 07/18/24 09:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253796-1
Matrix: Solid
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00071	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00053	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
1,1-Dichloroethane	<0.0014		0.0014	0.00054	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
1,1-Dichloroethene	<0.0014		0.0014	0.00059	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
1,2-Dichloroethane	<0.0036		0.0036	0.00092	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00068	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
2-Hexanone	<0.0036		0.0036	0.0022	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0025	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Acetone	<0.014		0.014	0.0060	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Benzene	<0.0014		0.0014	0.00045	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Bromodichloromethane	<0.0014		0.0014	0.00046	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Bromoform	<0.0014		0.0014	0.00083	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Bromomethane	<0.0036		0.0036	0.0018	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Carbon disulfide	<0.0036		0.0036	0.00066	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Carbon tetrachloride	<0.0014		0.0014	0.00048	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Chlorobenzene	<0.0014		0.0014	0.00060	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Chloroethane	<0.0036		0.0036	0.0012	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Chloromethane	<0.0036		0.0036	0.00069	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Dibromochloromethane	<0.0014		0.0014	0.00066	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Ethylbenzene	<0.0014		0.0014	0.00075	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00046	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Methylene Chloride	<0.0036		0.0036	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Styrene	<0.0014		0.0014	0.00064	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Tetrachloroethene	<0.0014		0.0014	0.00080	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Toluene	<0.0014		0.0014	0.00029	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00054	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00068	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Trichloroethene	<0.0014		0.0014	0.00039	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Vinyl chloride	<0.0014		0.0014	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1
Xylenes, Total	<0.0028		0.0028	0.00049	mg/Kg	☼	07/20/24 07:41	07/22/24 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 134*	*07/20/24 07:41*	*07/22/24 14:33*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*07/20/24 07:41*	*07/22/24 14:33*	*1*
Dibromofluoromethane (Surr)	*116*		*75 - 126*	*07/20/24 07:41*	*07/22/24 14:33*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*07/20/24 07:41*	*07/22/24 14:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1

Client Sample ID: 2861V2-11-B01
Date Collected: 07/18/24 09:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253796-1
Matrix: Solid
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2,4-Dinitrophenol	<0.74	F2	0.74	0.21	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2-Methylnaphthalene	<0.074		0.074	0.0074	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2-Methylphenol	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.21	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
4-Chloroaniline	<0.74		0.74	0.39	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.048	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
4-Nitrophenol	<0.74		0.74	0.14	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Acenaphthene	<0.037		0.037	0.0075	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Anthracene	<0.037		0.037	0.0075	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0080	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.14	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Chrysene	<0.037		0.037	0.0097	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Dimethyl phthalate	<0.19		0.19	0.0080	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Fluoranthene	<0.037		0.037	0.0086	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Hexachlorobenzene	<0.074		0.074	0.0071	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Hexachlorocyclopentadiene	<0.74		0.74	0.39	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Hexachloroethane	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253796-1

Client Sample ID: 2861V2-11-B01
Date Collected: 07/18/24 09:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253796-1
Matrix: Solid
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.0073	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Pentachlorophenol	<0.74		0.74	0.092	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Phenanthrene	<0.037		0.037	0.0080	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Phenol	<0.19		0.19	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*31 - 143*	*07/22/24 15:17*	*07/23/24 13:26*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*07/22/24 15:17*	*07/23/24 13:26*	*1*
2-Fluorophenol (Surr)	*75*		*31 - 166*	*07/22/24 15:17*	*07/23/24 13:26*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*07/22/24 15:17*	*07/23/24 13:26*	*1*
Phenol-d5 (Surr)	*76*		*30 - 153*	*07/22/24 15:17*	*07/23/24 13:26*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*07/22/24 15:17*	*07/23/24 13:26*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.44	mg/Kg	☼	07/30/24 09:35	08/02/24 18:42	1
Arsenic	**9.4**		1.1	0.39	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Barium	**71**		1.1	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Beryllium	**0.68**		0.45	0.11	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Boron	**15**		5.7	0.53	mg/Kg	☼	07/30/24 09:35	08/02/24 18:42	1
Cadmium	<0.23		0.23	0.041	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Calcium	**41000**	**B**	23	3.8	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Chromium	**23**		1.1	0.56	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Cobalt	**15**		0.57	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Copper	**23**		1.1	0.32	mg/Kg	☼	07/30/24 09:35	08/02/24 18:42	1
Iron	**24000**		23	12	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Lead	**16**		0.57	0.26	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Magnesium	**19000**		11	5.6	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Manganese	**460**		1.1	0.16	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Nickel	**37**		1.1	0.33	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Potassium	**3100**		57	20	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Selenium	<1.1		1.1	0.67	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Silver	**0.60**		0.57	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Sodium	**390**	**B**	110	17	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Thallium	**2.7**		1.1	0.57	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Vanadium	**31**		0.57	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1
Zinc	**60**	**B**	2.3	1.0	mg/Kg	☼	07/30/24 09:35	08/02/24 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 15:53	07/29/24 15:00	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 15:00	1
Iron	<0.20		0.20	0.20	mg/L		07/23/24 15:53	08/02/24 20:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 20:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253796-1

Client Sample ID: 2861V2-11-B01
Date Collected: 07/18/24 09:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253796-1
Matrix: Solid
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.15**		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 15:00	1
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.055**		0.050	0.010	mg/L		07/23/24 15:38	08/01/24 17:20	1
Barium	**0.45**	**J**	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 17:20	1
Beryllium	**0.0040**		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 17:20	1
Boron	**0.15**		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 17:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 17:20	1
Calcium	**27**		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:20	1
Chromium	**0.12**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:20	1
Cobalt	**0.034**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:20	1
Iron	**130**		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 15:18	1
Lead	**0.064**		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 17:20	1
Manganese	**0.46**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:20	1
Nickel	**0.15**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:20	1
Potassium	**24**		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:20	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 17:20	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:20	1
Zinc	**0.25**	**J**	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:53	08/05/24 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0015**	**J**	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 15:50	1
Thallium	**0.0038**		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 15:50	1

Method: SW846 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		07/31/24 10:20	08/01/24 12:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.018	0.0075	mg/Kg	☼	08/01/24 18:30	08/02/24 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	☼	07/30/24 12:30	07/31/24 15:56	1
pH (SW846 9045D)	**8.7**		0.2	0.2	SU			07/25/24 14:34	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253796-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

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 - AE8-032A

Job ID: 500-253796-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact

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

500-253796 COC

Laboratory

Lab **Eurofins - Chicago**
Address **2417 Bond Street**
University Park, IL 60484
Phone **708-534-5200**
Contact **Jodie Bracken**
email Jodie Bracken@ET EurofinsUS com

Project Name AE8 032A
Project No PTB/WO#: 195 0002/32A
TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler: Pablo Fernandez

COC No 1 of 1
Lab Job No. 500-253796
Sample Temp: 3.4-3.1

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
					ANALYSES															
1	2861V2-11-B01	07/18/24	0900	S	X	X					X	X	X	X	X					

19 JH

Relinquished by	Date/Time 07/19/24	Received by	Date/Time 7/19/24 0845
Relinquished by	Date/Time 7/19/24 1305	Received by	Date/Time 7/19/24 1305
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 3562 (Joliet Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
803 Joliet Road (northwest corner of Joliet Road and Brainard Avenue)

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.77477 (Decimal Degrees) Longitude: -87.87784 (-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.): 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 3562 (Joliet Road) Latitude: 41.77477 Longitude: - 87.87784

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 2861V2-13-B03 WAS SAMPLED AT SITE 2861V2-13. SEE TABLE 3d 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253800-1.

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

I, Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Savo Radulovic
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

Oct 3, 2024
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 2861V2-13
City of Countryside
Municipal Complex

Sample ID	2861V2-13-B03	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-6					
Sample Date	7/18/2024	[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	8.8					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 8:14:22 AM

JOB DESCRIPTION

IDOT - AE8-032A

JOB NUMBER

500-253800-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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

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

Authorization

Generated
8/6/2024 8:14:22 AM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
Designee for
Jodie Bracken, Project Manager I
Jodie.Bracken@ET.EurofinsUS.com
(708)534-5200

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253800-1

Client Sample ID: 2861V2-13-B03
Date Collected: 07/18/24 13:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253800-5
Matrix: Solid
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00065	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00080	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00061	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
1,1-Dichloroethane	<0.0016		0.0016	0.00061	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
1,1-Dichloroethene	<0.0016		0.0016	0.00067	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
1,2-Dichloroethane	<0.0040		0.0040	0.0010	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00078	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
2-Hexanone	<0.0040		0.0040	0.0025	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0029	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Benzene	<0.0016		0.0016	0.00051	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Bromodichloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Bromoform	<0.0016		0.0016	0.00094	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Bromomethane	<0.0040		0.0040	0.0020	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Carbon disulfide	<0.0040		0.0040	0.00074	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Carbon tetrachloride	<0.0016		0.0016	0.00055	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Chlorobenzene	<0.0016		0.0016	0.00068	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Chloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Chloroform	<0.0016		0.0016	0.0012	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Chloromethane	<0.0040		0.0040	0.00078	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00065	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00065	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Dibromochloromethane	<0.0016		0.0016	0.00075	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Ethylbenzene	<0.0016		0.0016	0.00085	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00052	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Methylene Chloride	<0.0040		0.0040	0.0017	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Styrene	<0.0016		0.0016	0.00073	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Tetrachloroethene	<0.0016		0.0016	0.00091	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Toluene	<0.0016		0.0016	0.00033	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00061	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00078	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Trichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Vinyl chloride	<0.0016		0.0016	0.00066	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1
Xylenes, Total	<0.0032		0.0032	0.00055	mg/Kg	☼	07/20/24 07:41	07/23/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 134*	*07/20/24 07:41*	*07/23/24 12:55*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*07/20/24 07:41*	*07/23/24 12:55*	*1*
Dibromofluoromethane (Surr)	*120*		*75 - 126*	*07/20/24 07:41*	*07/23/24 12:55*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*07/20/24 07:41*	*07/23/24 12:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.030	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
1,3-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
1,4-Dichlorobenzene	<0.21		0.21	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.030	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253800-1

Client Sample ID: 2861V2-13-B03
Date Collected: 07/18/24 13:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253800-5
Matrix: Solid
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2,4-Dichlorophenol	<0.41		0.41	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2,4-Dimethylphenol	<0.41		0.41	0.093	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2,4-Dinitrophenol	<0.84		0.84	0.24	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2,4-Dinitrotoluene	<0.21		0.21	0.024	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2-Chloronaphthalene	<0.21		0.21	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2-Methylnaphthalene	<0.084		0.084	0.0083	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2-Nitroaniline	<0.21		0.21	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
2-Nitrophenol	<0.41		0.41	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
3 & 4 Methylphenol	<0.21		0.21	0.030	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
3-Nitroaniline	<0.41		0.41	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.23	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
4-Chloro-3-methylphenol	<0.41		0.41	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
4-Chloroaniline	<0.84		0.84	0.43	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
4-Nitroaniline	<0.41		0.41	0.031	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
4-Nitrophenol	<0.84		0.84	0.15	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Acenaphthene	<0.041		0.041	0.0084	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Acenaphthylene	<0.041		0.041	0.0070	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Anthracene	<0.041		0.041	0.0085	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Benzo[a]anthracene	**0.036**	**J**	0.041	0.0088	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Benzo[a]pyrene	**0.047**		0.041	0.040	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Benzo[b]fluoranthene	**0.057**		0.041	0.039	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Benzo[g,h,i]perylene	**0.043**		0.041	0.0090	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Benzo[k]fluoranthene	**0.044**		0.041	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Butyl benzyl phthalate	<0.21		0.21	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Carbazole	<0.21		0.21	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Chrysene	**0.057**		0.041	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Dimethyl phthalate	<0.21		0.21	0.0090	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Di-n-octyl phthalate	<0.41		0.41	0.29	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Fluoranthene	**0.076**		0.041	0.0096	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Fluorene	<0.041		0.041	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Hexachlorobenzene	<0.084		0.084	0.0079	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Hexachlorobutadiene	<0.21		0.21	0.023	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Hexachlorocyclopentadiene	<0.84		0.84	0.44	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Hexachloroethane	<0.21		0.21	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253800-1

Client Sample ID: 2861V2-13-B03
Date Collected: 07/18/24 13:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253800-5
Matrix: Solid
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.042**		0.041	0.040	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Isophorone	<0.21		0.21	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Naphthalene	<0.041		0.041	0.0075	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
N-Nitrosodiphenylamine	<0.21		0.21	0.025	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Pentachlorophenol	<0.84		0.84	0.10	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Phenanthrene	**0.032**	**J**	0.041	0.0090	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Phenol	<0.21		0.21	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1
Pyrene	**0.062**		0.041	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*31 - 143*	*07/22/24 15:17*	*07/23/24 20:45*	*1*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*	*07/22/24 15:17*	*07/23/24 20:45*	*1*
2-Fluorophenol (Surr)	*75*		*31 - 166*	*07/22/24 15:17*	*07/23/24 20:45*	*1*
Nitrobenzene-d5 (Surr)	*78*		*37 - 147*	*07/22/24 15:17*	*07/23/24 20:45*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*07/22/24 15:17*	*07/23/24 20:45*	*1*
Terphenyl-d14 (Surr)	*88*		*42 - 157*	*07/22/24 15:17*	*07/23/24 20:45*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.44	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Arsenic	**11**		1.1	0.39	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Barium	**79**		1.1	0.13	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Beryllium	**0.82**		0.45	0.11	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Boron	**15**		5.7	0.53	mg/Kg	☼	07/30/24 09:31	08/02/24 04:09	1
Cadmium	**0.23**		0.23	0.041	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Calcium	**31000**	**B**	23	3.9	mg/Kg	☼	07/30/24 09:31	08/02/24 04:09	1
Chromium	**22**		1.1	0.56	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Cobalt	**15**		0.57	0.15	mg/Kg	☼	07/30/24 09:31	08/02/24 04:09	1
Copper	**28**		1.1	0.32	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Iron	**24000**		23	12	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Lead	**37**		0.57	0.26	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Magnesium	**20000**		11	5.6	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Manganese	**430**		1.1	0.16	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Nickel	**37**		1.1	0.33	mg/Kg	☼	07/30/24 09:31	08/02/24 04:09	1
Potassium	**3000**		57	20	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Selenium	<1.1		1.1	0.67	mg/Kg	☼	07/30/24 09:31	08/02/24 04:09	1
Silver	<0.57		0.57	0.15	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Sodium	**510**		110	17	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Thallium	**1.6**		1.1	0.57	mg/Kg	☼	07/30/24 09:31	08/01/24 03:54	1
Vanadium	**32**		0.57	0.13	mg/Kg	☼	07/30/24 09:31	08/02/24 04:09	1
Zinc	**82**		2.3	1.0	mg/Kg	☼	07/30/24 09:31	08/02/24 04:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 15:30	08/02/24 03:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:30	08/02/24 03:13	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:30	08/02/24 03:13	1
Iron	<0.40		0.40	0.20	mg/L		07/23/24 15:30	08/02/24 03:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253800-1

Client Sample ID: 2861V2-13-B03
Date Collected: 07/18/24 13:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253800-5
Matrix: Solid
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:30	08/02/24 03:13	1
Manganese	0.19	B	0.025	0.010	mg/L		07/23/24 15:30	08/02/24 15:43	1
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:30	08/02/24 03:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.050	0.010	mg/L		07/23/24 16:03	08/01/24 19:36	1
Barium	0.66		0.50	0.050	mg/L		07/23/24 16:03	08/01/24 19:36	1
Beryllium	0.0041		0.0040	0.0040	mg/L		07/23/24 16:03	08/01/24 19:36	1
Boron	0.17		0.10	0.050	mg/L		07/23/24 16:03	08/01/24 19:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 16:03	08/01/24 19:36	1
Calcium	26		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:36	1
Chromium	0.16		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:36	1
Cobalt	0.041		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:36	1
Iron	130		0.40	0.20	mg/L		07/23/24 16:03	08/01/24 19:36	1
Lead	0.19		0.0075	0.0075	mg/L		07/23/24 16:03	08/01/24 19:36	1
Manganese	0.64		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:36	1
Nickel	0.17		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:36	1
Potassium	33		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:36	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 16:03	08/01/24 19:36	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:36	1
Zinc	0.57		0.50	0.020	mg/L		07/23/24 16:03	08/01/24 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:30	08/05/24 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0024	J ^2	0.0060	0.0013	mg/L		07/23/24 16:03	07/25/24 17:58	1
Thallium	0.0041		0.0020	0.00057	mg/L		07/23/24 16:03	07/25/24 17:58	1

Method: SW846 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		07/31/24 10:20	08/01/24 13:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0082	mg/Kg	☼	08/01/24 18:30	08/02/24 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.20	J	0.29	0.15	mg/Kg	☼	08/01/24 09:07	08/01/24 15:26	1
pH (SW846 9045D)	8.8		0.2	0.2	SU			07/25/24 14:07	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD 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.

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

General Chemistry

Qualifier	Qualifier Description
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 - AE8-032A

Job ID: 500-253800-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact

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

500-253800 COC

Laboratory

Lab **Eurofins - Chicago**
Address **2417 Bond Street**
University Park, IL 60484
Phone **708-534-5200**
Contact **Jodie Bracken**
email Jodie Bracken@ET EurofinsUS com

Project Name AE8 032A
Project No PTB/WO#: 1950002/32A
TAT [X] 15 BD [ ] 10 BD [ ] 5 BD [ ] 2 BD ____ Other
Sampler: Pablo Fernandez

COC No 1 of 1
Lab Job No.: 500-253800
Sample Temp. 3.8 → 3.5

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	286112-13-B01-1	07/18/24	1405	S	X	X					X	X	X	X	X					
2	286112-13-B01-2	↓	1415	S	↓	↓					↓	↓	↓	↓	↓					
3	286112-13-B01-3		1425	S																
4	286112-13-B02		1355	S																
5	286112-13-B03	↓	1345	S	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time 07/19/24	Received by	Date/Time 7/20/24 0945
Relinquished by	Date/Time 7/19/24 1305	Received by	Date/Time 7/19/24 1345
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 3562 (Joliet Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
6300 block of Joliet Road (southeast corner of Joliet Road and Brainard Avenue)

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.77439 (Decimal Degrees) Longitude: -87.87721 (-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.): 90

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 3562 (Joliet Road) Latitude: 41.77439 Longitude: - 87.87721

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 2861V2-15-B01 AND 2861V2-15-B02 WERE SAMPLED AT SITE 2861V2-15. SEE TABLE 3f 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253798-1.

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

I, Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Savo Radulovic
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Oct 3, 2024
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 2861V2-15
Cook County Forest Preserve

Sample ID	2861V2-15-B01-1	2861V2-15-B01-2	2861V2-15-B01-2 DUP	2861V2-15-B01-3	Maximum Allowable Concentration				
Sample Depth (ft)	0-8	8-16	8-16	16-24					
Sample Date	7/18/2024	7/18/2024	7/18/2024	7/18/2024	[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					
Sample pH	8.3	8.3	8.7	8					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

Sample ID	2861V2-15-B02-1	2861V2-15-B02-2	Maximum Allowable Concentration				
Sample Depth (ft)	0-5	5-10					
Sample Date	7/18/2024	7/18/2024	[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	8.1	8.7					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 12:59:55 PM

JOB DESCRIPTION

IDOT - AE8-032A

JOB NUMBER

500-253798-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

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

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

Authorization

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8/6/2024 12:59:55 PM

Authorized for release by
Shawn Hayes, Senior Project Manager
Shawn.Hayes@et.eurofinsus.com
Designee for
Jodie Bracken, Project Manager I
Jodie.Bracken@ET.EurofinsUS.com
(708)534-5200

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-1
Date Collected: 07/18/24 10:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-1
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00068	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00051	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
1,1-Dichloroethane	<0.0014		0.0014	0.00051	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
1,1-Dichloroethene	<0.0014		0.0014	0.00056	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
1,2-Dichloroethane	<0.0034		0.0034	0.00089	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
1,2-Dichloropropane	<0.0014		0.0014	0.00035	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00065	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
2-Butanone (MEK)	<0.0034		0.0034	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
2-Hexanone	<0.0034		0.0034	0.0021	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0034	0.0024	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Acetone	<0.014		0.014	0.0057	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Benzene	<0.0014		0.0014	0.00043	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Bromodichloromethane	<0.0014		0.0014	0.00044	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Bromoform	<0.0014		0.0014	0.00080	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Bromomethane	<0.0034		0.0034	0.0017	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Carbon disulfide	<0.0034		0.0034	0.00063	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Carbon tetrachloride	<0.0014		0.0014	0.00047	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Chlorobenzene	<0.0014		0.0014	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Chloroethane	<0.0034		0.0034	0.0011	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Chloroform	<0.0014		0.0014	0.00098	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Chloromethane	<0.0034		0.0034	0.00066	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Dibromochloromethane	<0.0014		0.0014	0.00063	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Ethylbenzene	<0.0014		0.0014	0.00072	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00044	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Methylene Chloride	<0.0034		0.0034	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Styrene	<0.0014		0.0014	0.00061	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Tetrachloroethene	<0.0014		0.0014	0.00077	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Toluene	<0.0014		0.0014	0.00027	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00052	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00065	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Trichloroethene	<0.0014		0.0014	0.00037	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Vinyl chloride	<0.0014		0.0014	0.00056	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1
Xylenes, Total	<0.0027		0.0027	0.00047	mg/Kg	☼	07/20/24 07:41	07/22/24 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*		*70 - 134*	*07/20/24 07:41*	*07/22/24 04:19*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*07/20/24 07:41*	*07/22/24 04:19*	*1*
Dibromofluoromethane (Surr)	*117*		*75 - 126*	*07/20/24 07:41*	*07/22/24 04:19*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*07/20/24 07:41*	*07/22/24 04:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-1
Date Collected: 07/18/24 10:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-1
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2-Methylnaphthalene	<0.076		0.076	0.0076	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Acenaphthylene	<0.038		0.038	0.0064	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Anthracene	<0.038		0.038	0.0077	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Benzo[a]pyrene	<0.038		0.038	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Di-n-octyl phthalate	<0.38		0.38	0.26	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-1
Date Collected: 07/18/24 10:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-1
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Naphthalene	<0.038		0.038	0.0068	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0075	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Pentachlorophenol	<0.76		0.76	0.095	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Phenanthrene	<0.038		0.038	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Phenol	<0.19		0.19	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1
Pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*31 - 143*	*07/22/24 15:17*	*07/23/24 16:07*	*1*
2-Fluorobiphenyl (Surr)	*85*		*43 - 145*	*07/22/24 15:17*	*07/23/24 16:07*	*1*
2-Fluorophenol (Surr)	*79*		*31 - 166*	*07/22/24 15:17*	*07/23/24 16:07*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*07/22/24 15:17*	*07/23/24 16:07*	*1*
Phenol-d5 (Surr)	*79*		*30 - 153*	*07/22/24 15:17*	*07/23/24 16:07*	*1*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*07/22/24 15:17*	*07/23/24 16:07*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.40	mg/Kg	☼	07/30/24 09:35	08/02/24 18:51	1
Arsenic	**6.1**		1.0	0.35	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Barium	**61**		1.0	0.12	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Beryllium	**0.65**		0.41	0.095	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Boron	**17**		5.1	0.47	mg/Kg	☼	07/30/24 09:35	08/02/24 18:51	1
Cadmium	<0.20		0.20	0.037	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Calcium	**51000**	**B**	20	3.5	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Chromium	**22**		1.0	0.50	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Cobalt	**9.9**		0.51	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Copper	**17**		1.0	0.29	mg/Kg	☼	07/30/24 09:35	08/02/24 18:51	1
Iron	**20000**		20	11	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Lead	**11**		0.51	0.24	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Magnesium	**22000**		10	5.1	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Manganese	**270**		1.0	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Nickel	**31**		1.0	0.30	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Potassium	**3100**		51	18	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Selenium	<1.0		1.0	0.60	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Silver	**0.56**		0.51	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Sodium	**130**	**B**	100	15	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Thallium	**1.9**		1.0	0.51	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Vanadium	**28**		0.51	0.12	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1
Zinc	**54**	**B**	2.0	0.89	mg/Kg	☼	07/30/24 09:35	08/02/24 02:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 15:38	08/01/24 17:47	1
Barium	<0.50		0.50	0.050	mg/L		07/23/24 15:38	08/01/24 17:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 17:47	1
Boron	<0.10		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 17:47	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-1
Date Collected: 07/18/24 10:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-1
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 17:47	1
Calcium	**10**		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:47	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:47	1
Cobalt	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:47	1
Iron	**0.83**		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 15:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 17:47	1
Manganese	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:47	1
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:47	1
Potassium	**0.78**	**J**	2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:47	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 17:47	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:47	1
Zinc	<0.50		0.50	0.020	mg/L		07/23/24 15:38	08/01/24 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 16:12	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 16:12	1

Method: SW846 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		07/31/24 10:20	08/01/24 12:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.018	0.0073	mg/Kg	☼	08/01/24 18:30	08/02/24 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	☼	07/30/24 12:30	07/31/24 16:07	1
pH (SW846 9045D)	**8.3**		0.2	0.2	SU			07/25/24 14:40	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-2
Date Collected: 07/18/24 10:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-2
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00068	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00051	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
1,1-Dichloroethane	<0.0014		0.0014	0.00052	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
1,1-Dichloroethene	<0.0014		0.0014	0.00056	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
1,2-Dichloroethane	<0.0034		0.0034	0.00089	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
1,2-Dichloropropane	<0.0014		0.0014	0.00035	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00066	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
2-Butanone (MEK)	<0.0034		0.0034	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
2-Hexanone	<0.0034		0.0034	0.0021	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0034	0.0024	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Acetone	<0.014		0.014	0.0057	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Benzene	<0.0014		0.0014	0.00043	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Bromodichloromethane	<0.0014		0.0014	0.00044	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Bromoform	<0.0014		0.0014	0.00080	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Bromomethane	<0.0034		0.0034	0.0017	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Carbon disulfide	<0.0034		0.0034	0.00063	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Carbon tetrachloride	<0.0014		0.0014	0.00047	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Chlorobenzene	<0.0014		0.0014	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Chloroethane	<0.0034		0.0034	0.0011	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Chloroform	<0.0014		0.0014	0.00098	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Chloromethane	<0.0034		0.0034	0.00066	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Dibromochloromethane	<0.0014		0.0014	0.00063	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Ethylbenzene	<0.0014		0.0014	0.00072	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00044	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Methylene Chloride	<0.0034		0.0034	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Styrene	<0.0014		0.0014	0.00062	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Tetrachloroethene	<0.0014		0.0014	0.00077	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Toluene	<0.0014		0.0014	0.00028	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00052	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00066	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Trichloroethene	<0.0014		0.0014	0.00037	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Vinyl chloride	<0.0014		0.0014	0.00056	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1
Xylenes, Total	<0.0027		0.0027	0.00047	mg/Kg	☼	07/20/24 07:41	07/22/24 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 134*	*07/20/24 07:41*	*07/22/24 04:44*	*1*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*07/20/24 07:41*	*07/22/24 04:44*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 126*	*07/20/24 07:41*	*07/22/24 04:44*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*07/20/24 07:41*	*07/22/24 04:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-2
Date Collected: 07/18/24 10:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-2
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2-Methylnaphthalene	<0.076		0.076	0.0076	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Acenaphthylene	<0.038		0.038	0.0064	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Anthracene	<0.038		0.038	0.0077	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Benzo[a]pyrene	<0.038		0.038	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Di-n-octyl phthalate	<0.38		0.38	0.26	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-2
Date Collected: 07/18/24 10:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-2
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Naphthalene	<0.038		0.038	0.0068	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0075	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Pentachlorophenol	<0.76		0.76	0.095	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Phenanthrene	<0.038		0.038	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Phenol	<0.19		0.19	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1
Pyrene	<0.038		0.038	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*31 - 143*	*07/22/24 15:17*	*07/23/24 16:35*	*1*
2-Fluorobiphenyl (Surr)	*74*		*43 - 145*	*07/22/24 15:17*	*07/23/24 16:35*	*1*
2-Fluorophenol (Surr)	*70*		*31 - 166*	*07/22/24 15:17*	*07/23/24 16:35*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*07/22/24 15:17*	*07/23/24 16:35*	*1*
Phenol-d5 (Surr)	*69*		*30 - 153*	*07/22/24 15:17*	*07/23/24 16:35*	*1*
Terphenyl-d14 (Surr)	*82*		*42 - 157*	*07/22/24 15:17*	*07/23/24 16:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.4		2.4	0.46	mg/Kg	☼	07/30/24 09:35	08/02/24 18:56	1
Arsenic	**7.9**		1.2	0.40	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Barium	**51**		1.2	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Beryllium	**0.59**		0.47	0.11	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Boron	**18**		5.9	0.55	mg/Kg	☼	07/30/24 09:35	08/02/24 18:56	1
Cadmium	<0.24		0.24	0.042	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Calcium	**45000**	**B**	24	4.0	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Chromium	**21**		1.2	0.58	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Cobalt	**16**		0.59	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Copper	**20**		1.2	0.33	mg/Kg	☼	07/30/24 09:35	08/02/24 18:56	1
Iron	**22000**		24	12	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Lead	**13**		0.59	0.27	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Magnesium	**24000**		12	5.8	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Manganese	**450**		1.2	0.17	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Nickel	**38**		1.2	0.34	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Potassium	**3700**		59	21	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Selenium	<1.2		1.2	0.69	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Silver	**0.60**		0.59	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Sodium	**180**	**B**	120	17	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Thallium	**2.7**		1.2	0.59	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Vanadium	**26**		0.59	0.14	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1
Zinc	**63**	**B**	2.4	1.0	mg/Kg	☼	07/30/24 09:35	08/02/24 02:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:53	08/02/24 16:21	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 15:14	1
Iron	<0.40		0.40	0.20	mg/L		07/23/24 15:53	08/02/24 20:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 20:56	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-2
Date Collected: 07/18/24 10:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-2
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.41**		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 15:14	1
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.040**	**J**	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 17:51	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 17:51	1
Beryllium	**0.0044**		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 17:51	1
Boron	**0.19**		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 17:51	1
Calcium	**37**		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:51	1
Chromium	**0.12**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:51	1
Cobalt	**0.034**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:51	1
Iron	**110**		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 15:59	1
Lead	**0.049**		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 17:51	1
Manganese	**0.40**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:51	1
Nickel	**0.13**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:51	1
Potassium	**36**		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:51	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 17:51	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:51	1
Zinc	**0.26**	**J**	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:53	08/05/24 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0013**	**J**	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 16:16	1
Thallium	**0.0025**		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 16:16	1

Method: SW846 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		07/31/24 10:20	08/01/24 12:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.019	0.0078	mg/Kg	☼	08/01/24 18:30	08/02/24 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	☼	07/30/24 12:30	07/31/24 16:08	1
pH (SW846 9045D)	**8.3**		0.2	0.2	SU			07/25/24 13:45	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-3
Date Collected: 07/18/24 10:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-3
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00069	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00052	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
1,1-Dichloroethane	<0.0014		0.0014	0.00053	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
1,1-Dichloroethene	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
1,2-Dichloroethane	<0.0035		0.0035	0.00091	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00067	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
2-Butanone (MEK)	<0.0035		0.0035	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
2-Hexanone	<0.0035		0.0035	0.0021	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0025	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Acetone	<0.014		0.014	0.0059	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Benzene	<0.0014		0.0014	0.00044	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Bromodichloromethane	<0.0014		0.0014	0.00045	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Bromoform	<0.0014		0.0014	0.00082	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Bromomethane	<0.0035		0.0035	0.0017	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Carbon disulfide	<0.0035		0.0035	0.00064	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Carbon tetrachloride	<0.0014		0.0014	0.00048	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Chlorobenzene	<0.0014		0.0014	0.00059	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Chloroethane	<0.0035		0.0035	0.0011	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Chloromethane	<0.0035		0.0035	0.00068	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00056	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00056	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Dibromochloromethane	<0.0014		0.0014	0.00065	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Ethylbenzene	<0.0014		0.0014	0.00073	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00045	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Methylene Chloride	<0.0035		0.0035	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Styrene	<0.0014		0.0014	0.00063	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Tetrachloroethene	<0.0014		0.0014	0.00078	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Toluene	<0.0014		0.0014	0.00028	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00053	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00067	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Trichloroethene	<0.0014		0.0014	0.00038	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Vinyl chloride	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1
Xylenes, Total	<0.0028		0.0028	0.00048	mg/Kg	☼	07/20/24 07:41	07/22/24 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 134*	*07/20/24 07:41*	*07/22/24 05:08*	*1*
4-Bromofluorobenzene (Surr)	*114*		*75 - 131*	*07/20/24 07:41*	*07/22/24 05:08*	*1*
Dibromofluoromethane (Surr)	*117*		*75 - 126*	*07/20/24 07:41*	*07/22/24 05:08*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*07/20/24 07:41*	*07/22/24 05:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-3
Date Collected: 07/18/24 10:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-3
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2,4-Dichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2,4-Dimethylphenol	<0.38		0.38	0.087	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2,4-Dinitrophenol	<0.78		0.78	0.22	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2-Methylnaphthalene	<0.078		0.078	0.0078	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2-Nitroaniline	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
3-Nitroaniline	<0.38		0.38	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.22	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
4-Chloroaniline	<0.78		0.78	0.41	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
4-Nitroaniline	<0.38		0.38	0.029	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
4-Nitrophenol	<0.78		0.78	0.14	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Acenaphthene	<0.038		0.038	0.0079	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Acenaphthylene	<0.038		0.038	0.0066	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Anthracene	<0.038		0.038	0.0079	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Benzo[a]anthracene	<0.038		0.038	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.038	0.0084	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Chrysene	**0.029**	**J**	0.038	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Diethyl phthalate	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Dimethyl phthalate	<0.19		0.19	0.0084	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Hexachlorobenzene	<0.078		0.078	0.0074	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Hexachlorocyclopentadiene	<0.78		0.78	0.41	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-3
Date Collected: 07/18/24 10:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-3
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.038	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Naphthalene	<0.038		0.038	0.0070	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.0076	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Pentachlorophenol	<0.78		0.78	0.097	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Phenanthrene	**0.021**	**J**	0.038	0.0084	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Phenol	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1
Pyrene	**0.011**	**J**	0.038	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*31 - 143*	*07/22/24 15:17*	*07/23/24 16:59*	*1*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*07/22/24 15:17*	*07/23/24 16:59*	*1*
2-Fluorophenol (Surr)	*71*		*31 - 166*	*07/22/24 15:17*	*07/23/24 16:59*	*1*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*	*07/22/24 15:17*	*07/23/24 16:59*	*1*
Phenol-d5 (Surr)	*73*		*30 - 153*	*07/22/24 15:17*	*07/23/24 16:59*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*07/22/24 15:17*	*07/23/24 16:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.44	mg/Kg	☼	07/30/24 09:35	08/02/24 19:00	1
Arsenic	**8.2**		1.1	0.39	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Barium	**44**		1.1	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Beryllium	**0.65**		0.45	0.11	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Boron	**19**		5.7	0.53	mg/Kg	☼	07/30/24 09:35	08/02/24 19:00	1
Cadmium	<0.23		0.23	0.041	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Calcium	**42000**	**B**	23	3.9	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Chromium	**22**		1.1	0.56	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Cobalt	**21**		0.57	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Copper	**19**		1.1	0.32	mg/Kg	☼	07/30/24 09:35	08/02/24 19:00	1
Iron	**22000**		23	12	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Lead	**14**		0.57	0.26	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Magnesium	**25000**		11	5.6	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Manganese	**370**		1.1	0.16	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Nickel	**38**		1.1	0.33	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Potassium	**4000**		57	20	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Selenium	<1.1		1.1	0.67	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Silver	**0.66**		0.57	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Sodium	**170**	**B**	110	17	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Thallium	**2.2**		1.1	0.57	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Vanadium	**27**		0.57	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1
Zinc	**66**	**B**	2.3	1.0	mg/Kg	☼	07/30/24 09:35	08/02/24 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		07/23/24 15:53	08/02/24 21:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 21:09	1
Manganese	**0.64**		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 15:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-3

Date Collected: 07/18/24 10:30
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-3

Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**	**J**	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 17:55	1
Barium	**0.20**	**J**	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 17:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 17:55	1
Boron	**0.11**		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 17:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 17:55	1
Calcium	**27**		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:55	1
Chromium	**0.069**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:55	1
Cobalt	**0.020**	**J**	0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:55	1
Iron	**57**		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 16:03	1
Lead	**0.032**		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 17:55	1
Manganese	**0.22**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:55	1
Nickel	**0.069**		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:55	1
Potassium	**22**		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:55	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 17:55	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:55	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 16:20	1
Thallium	**0.0011**	**J**	0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 16:20	1

Method: SW846 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		07/31/24 10:20	08/01/24 12:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.017	0.0070	mg/Kg	☼	08/01/24 18:30	08/02/24 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	☼	07/30/24 12:30	07/31/24 16:10	1
pH (SW846 9045D)	**8.0**		0.2	0.2	SU			07/25/24 13:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-2 Dup

Date Collected: 07/18/24 10:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-4

Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0013		0.0013	0.00054	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0013	0.00066	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
1,1,2-Trichloroethane	<0.0013		0.0013	0.00050	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
1,1-Dichloroethane	<0.0013		0.0013	0.00050	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
1,1-Dichloroethene	<0.0013		0.0013	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
1,2-Dichloroethane	<0.0033		0.0033	0.00086	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
1,2-Dichloropropane	<0.0013		0.0013	0.00034	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
1,3-Dichloropropene, Total	<0.0013		0.0013	0.00064	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
2-Butanone (MEK)	<0.0033		0.0033	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
2-Hexanone	<0.0033		0.0033	0.0020	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0033	0.0024	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Acetone	<0.013		0.013	0.0056	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Benzene	<0.0013		0.0013	0.00042	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Bromodichloromethane	<0.0013		0.0013	0.00043	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Bromoform	<0.0013		0.0013	0.00077	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Bromomethane	<0.0033		0.0033	0.0016	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Carbon disulfide	<0.0033		0.0033	0.00061	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Carbon tetrachloride	<0.0013		0.0013	0.00045	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Chlorobenzene	<0.0013		0.0013	0.00056	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Chloroethane	<0.0033		0.0033	0.0011	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Chloroform	<0.0013		0.0013	0.00095	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Chloromethane	<0.0033		0.0033	0.00064	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
cis-1,2-Dichloroethene	<0.0013		0.0013	0.00054	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
cis-1,3-Dichloropropene	<0.0013		0.0013	0.00053	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Dibromochloromethane	<0.0013		0.0013	0.00062	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Ethylbenzene	<0.0013		0.0013	0.00070	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Methyl tert-butyl ether	<0.0013		0.0013	0.00043	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Methylene Chloride	<0.0033		0.0033	0.0014	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Styrene	<0.0013		0.0013	0.00060	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Tetrachloroethene	<0.0013		0.0013	0.00075	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Toluene	<0.0013		0.0013	0.00027	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
trans-1,2-Dichloroethene	<0.0013		0.0013	0.00050	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
trans-1,3-Dichloropropene	<0.0013		0.0013	0.00064	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Trichloroethene	<0.0013		0.0013	0.00036	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Vinyl chloride	<0.0013		0.0013	0.00054	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1
Xylenes, Total	<0.0027		0.0027	0.00046	mg/Kg	☼	07/20/24 07:41	07/22/24 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 134*	*07/20/24 07:41*	*07/22/24 05:32*	*1*
4-Bromofluorobenzene (Surr)	*112*		*75 - 131*	*07/20/24 07:41*	*07/22/24 05:32*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 126*	*07/20/24 07:41*	*07/22/24 05:32*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*07/20/24 07:41*	*07/22/24 05:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B01-2 Dup
Date Collected: 07/18/24 10:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-4
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2,4-Dinitrophenol	<0.75		0.75	0.22	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2-Methylnaphthalene	<0.075		0.075	0.0075	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0081	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Chrysene	<0.037		0.037	0.0098	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Fluoranthene	<0.037		0.037	0.0087	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Hexachlorocyclopentadiene	<0.75		0.75	0.40	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1

Client Sample ID: 2861V2-15-B01-2 Dup
Date Collected: 07/18/24 10:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-4
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0074	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Phenol	<0.19		0.19	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*31 - 143*	*07/22/24 15:17*	*07/23/24 17:24*	*1*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*07/22/24 15:17*	*07/23/24 17:24*	*1*
2-Fluorophenol (Surr)	*67*		*31 - 166*	*07/22/24 15:17*	*07/23/24 17:24*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*07/22/24 15:17*	*07/23/24 17:24*	*1*
Phenol-d5 (Surr)	*69*		*30 - 153*	*07/22/24 15:17*	*07/23/24 17:24*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*07/22/24 15:17*	*07/23/24 17:24*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.9		1.9	0.37	mg/Kg	☼	07/30/24 09:35	08/02/24 19:04	1
Arsenic	**9.4**		0.96	0.33	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Barium	**37**		0.96	0.11	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Beryllium	**0.47**		0.38	0.089	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Boron	**16**		4.8	0.45	mg/Kg	☼	07/30/24 09:35	08/02/24 19:04	1
Cadmium	<0.19		0.19	0.034	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Calcium	**44000**	**B**	19	3.2	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Chromium	**18**		0.96	0.47	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Cobalt	**11**		0.48	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Copper	**26**		0.96	0.27	mg/Kg	☼	07/30/24 09:35	08/02/24 19:04	1
Iron	**20000**		19	10	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Lead	**13**		0.48	0.22	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Magnesium	**24000**		9.6	4.8	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Manganese	**240**		0.96	0.14	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Nickel	**26**		0.96	0.28	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Potassium	**2800**		48	17	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Selenium	<0.96		0.96	0.56	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Silver	**0.54**		0.48	0.12	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Sodium	**160**	**B**	96	14	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Thallium	**1.5**		0.96	0.48	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Vanadium	**24**		0.48	0.11	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1
Zinc	**56**	**B**	1.9	0.84	mg/Kg	☼	07/30/24 09:35	08/02/24 03:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:30	08/02/24 02:17	1
Iron	<0.40		0.40	0.20	mg/L		07/23/24 15:30	08/02/24 02:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:30	08/02/24 02:17	1
Manganese	**0.41**	**B**	0.025	0.010	mg/L		07/23/24 15:30	08/02/24 02:17	1

Client Sample ID: 2861V2-15-B01-2 Dup
Date Collected: 07/18/24 10:45
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Lab Sample ID: 500-253798-4
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:30	08/02/24 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.050**		0.050	0.010	mg/L		07/23/24 16:03	08/01/24 18:44	1
Barium	**0.40**	**J**	0.50	0.050	mg/L		07/23/24 16:03	08/01/24 18:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 16:03	08/01/24 18:44	1
Boron	**0.17**		0.10	0.050	mg/L		07/23/24 16:03	08/01/24 18:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 16:03	08/01/24 18:44	1
Calcium	**38**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 18:44	1
Chromium	**0.12**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 18:44	1
Cobalt	**0.032**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 18:44	1
Iron	**100**		0.40	0.20	mg/L		07/23/24 16:03	08/01/24 18:44	1
Lead	**0.048**		0.0075	0.0075	mg/L		07/23/24 16:03	08/01/24 18:44	1
Manganese	**0.37**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 18:44	1
Nickel	**0.13**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 18:44	1
Potassium	**35**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 18:44	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 16:03	08/01/24 18:44	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 18:44	1
Zinc	**0.28**	**J**	0.50	0.020	mg/L		07/23/24 16:03	08/01/24 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:30	08/05/24 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0026**	**J F1**	0.0060	0.0013	mg/L		07/23/24 16:03	07/25/24 17:09	1
Thallium	**0.0035**		0.0020	0.00057	mg/L		07/23/24 16:03	07/25/24 17:09	1

Method: SW846 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		07/31/24 10:20	08/01/24 10:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.017	0.0071	mg/Kg	☼	08/01/24 18:30	08/02/24 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	☼	07/30/24 12:30	07/31/24 16:12	1
pH (SW846 9045D)	**8.7**		0.2	0.2	SU			07/25/24 13:52	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B02-1
Date Collected: 07/18/24 11:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-5
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00070	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00052	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
1,1-Dichloroethane	<0.0014		0.0014	0.00053	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
1,1-Dichloroethene	<0.0014		0.0014	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
1,2-Dichloroethane	<0.0035		0.0035	0.00091	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00067	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
2-Butanone (MEK)	<0.0035		0.0035	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
2-Hexanone	<0.0035		0.0035	0.0021	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0025	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Acetone	<0.014		0.014	0.0059	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Benzene	<0.0014		0.0014	0.00044	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Bromodichloromethane	<0.0014		0.0014	0.00045	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Bromoform	<0.0014		0.0014	0.00082	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Bromomethane	<0.0035		0.0035	0.0017	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Carbon disulfide	<0.0035		0.0035	0.00065	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Carbon tetrachloride	<0.0014		0.0014	0.00048	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Chlorobenzene	<0.0014		0.0014	0.00059	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Chloroethane	<0.0035		0.0035	0.0012	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Chloromethane	<0.0035		0.0035	0.00068	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00056	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Dibromochloromethane	<0.0014		0.0014	0.00065	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Ethylbenzene	<0.0014		0.0014	0.00074	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00045	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Methylene Chloride	<0.0035		0.0035	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Styrene	<0.0014		0.0014	0.00063	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Tetrachloroethene	<0.0014		0.0014	0.00079	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Toluene	<0.0014		0.0014	0.00028	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00053	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00067	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Trichloroethene	<0.0014		0.0014	0.00038	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Vinyl chloride	<0.0014		0.0014	0.00057	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1
Xylenes, Total	<0.0028		0.0028	0.00048	mg/Kg	☼	07/20/24 07:41	07/22/24 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 134*	*07/20/24 07:41*	*07/22/24 13:19*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*07/20/24 07:41*	*07/22/24 13:19*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 126*	*07/20/24 07:41*	*07/22/24 13:19*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*07/20/24 07:41*	*07/22/24 13:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.029	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B02-1
Date Collected: 07/18/24 11:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-5
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2,4-Dimethylphenol	<0.40		0.40	0.090	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2,4-Dinitrophenol	<0.81		0.81	0.23	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2-Methylnaphthalene	<0.081		0.081	0.0081	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2-Nitroaniline	<0.20		0.20	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.23	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
4-Chloroaniline	<0.81		0.81	0.42	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
4-Nitrophenol	<0.81		0.81	0.15	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Acenaphthene	<0.040		0.040	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Acenaphthylene	<0.040		0.040	0.0068	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Anthracene	<0.040		0.040	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Benzo[a]anthracene	**0.012**	**J**	0.040	0.0085	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Benzo[a]pyrene	<0.040		0.040	0.039	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Benzo[b]fluoranthene	<0.040		0.040	0.038	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Benzo[g,h,i]perylene	**0.013**	**J**	0.040	0.0087	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Benzo[k]fluoranthene	<0.040		0.040	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Chrysene	**0.019**	**J**	0.040	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Dimethyl phthalate	<0.20		0.20	0.0087	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Fluoranthene	**0.030**	**J**	0.040	0.0093	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Hexachlorobenzene	<0.081		0.081	0.0077	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Hexachlorocyclopentadiene	<0.81		0.81	0.43	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B02-1
Date Collected: 07/18/24 11:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-5
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.039	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Isophorone	<0.20		0.20	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Naphthalene	<0.040		0.040	0.0073	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.0079	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Pentachlorophenol	<0.81		0.81	0.10	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Phenanthrene	**0.014**	**J**	0.040	0.0087	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Phenol	<0.20		0.20	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1
Pyrene	**0.024**	**J**	0.040	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*31 - 143*	*07/22/24 15:17*	*07/23/24 17:49*	*1*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*	*07/22/24 15:17*	*07/23/24 17:49*	*1*
2-Fluorophenol (Surr)	*75*		*31 - 166*	*07/22/24 15:17*	*07/23/24 17:49*	*1*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*07/22/24 15:17*	*07/23/24 17:49*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*07/22/24 15:17*	*07/23/24 17:49*	*1*
Terphenyl-d14 (Surr)	*91*		*42 - 157*	*07/22/24 15:17*	*07/23/24 17:49*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.43	mg/Kg	☼	07/30/24 09:35	08/02/24 19:18	1
Arsenic	**11**		1.1	0.38	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Barium	**120**		1.1	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Beryllium	**0.73**		0.45	0.10	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Boron	**11**		5.6	0.52	mg/Kg	☼	07/30/24 09:35	08/02/24 19:18	1
Cadmium	**0.047**	**J**	0.22	0.040	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Calcium	**10000**	**B**	22	3.8	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Chromium	**25**		1.1	0.55	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Cobalt	**20**		0.56	0.15	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Copper	**23**		1.1	0.31	mg/Kg	☼	07/30/24 09:35	08/02/24 19:18	1
Iron	**27000**		22	12	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Lead	**26**		0.56	0.26	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Magnesium	**8600**		11	5.5	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Manganese	**650**		1.1	0.16	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Nickel	**34**		1.1	0.32	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Potassium	**3400**		56	20	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Selenium	<1.1		1.1	0.65	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Silver	**0.24**	**J**	0.56	0.14	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Sodium	**130**	**B**	110	16	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Thallium	**3.6**		1.1	0.56	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Vanadium	**35**		0.56	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1
Zinc	**72**	**B**	2.2	0.98	mg/Kg	☼	07/30/24 09:35	08/02/24 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:38	1
Iron	**0.28**	**J F1**	0.40	0.20	mg/L		07/25/24 14:59	08/02/24 04:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/25/24 14:59	08/02/24 04:38	1
Manganese	**0.037**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B02-1
Date Collected: 07/18/24 11:00
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-5
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 04:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.036**	**J**	0.050	0.010	mg/L		07/25/24 14:59	08/02/24 03:42	1
Barium	**0.41**	**J**	0.50	0.050	mg/L		07/25/24 14:59	08/02/24 03:42	1
Beryllium	**0.0040**		0.0040	0.0040	mg/L		07/25/24 14:59	08/02/24 03:42	1
Boron	**0.11**		0.10	0.050	mg/L		07/25/24 14:59	08/02/24 16:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/25/24 14:59	08/02/24 03:42	1
Calcium	**27**		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 03:42	1
Chromium	**0.11**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:42	1
Cobalt	**0.023**	**J**	0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:42	1
Iron	**110**		0.40	0.20	mg/L		07/25/24 14:59	08/02/24 03:42	1
Lead	**0.053**		0.0075	0.0075	mg/L		07/25/24 14:59	08/02/24 03:42	1
Manganese	**0.38**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:42	1
Nickel	**0.13**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:42	1
Potassium	**21**	**F1**	2.5	0.50	mg/L		07/25/24 14:59	08/02/24 03:42	1
Selenium	<0.050		0.050	0.020	mg/L		07/25/24 14:59	08/02/24 03:42	1
Silver	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:42	1
Zinc	**0.24**	**J**	0.50	0.020	mg/L		07/25/24 14:59	08/02/24 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/25/24 14:59	08/05/24 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0030**	**J F1**	0.0060	0.0013	mg/L		07/25/24 14:59	07/31/24 17:06	1
Thallium	**0.0034**		0.0020	0.00057	mg/L		07/25/24 14:59	07/31/24 17:06	1

Method: SW846 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		08/01/24 08:10	08/01/24 15:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.020	0.0083	mg/Kg	☼	08/01/24 18:30	08/02/24 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.14	mg/Kg	☼	07/30/24 12:30	07/31/24 16:14	1
pH (SW846 9045D)	**8.1**		0.2	0.2	SU			07/25/24 13:39	1

Client Sample ID: 2861V2-15-B02-2
Date Collected: 07/18/24 11:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-6
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00063	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00077	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
1,1-Dichloroethane	<0.0015		0.0015	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
1,1-Dichloroethene	<0.0015		0.0015	0.00064	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
1,2-Dichloroethane	<0.0039		0.0039	0.0010	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00074	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
2-Hexanone	<0.0039		0.0039	0.0024	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0028	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Acetone	<0.015		0.015	0.0065	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Benzene	<0.0015		0.0015	0.00049	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Bromodichloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Bromoform	<0.0015		0.0015	0.00090	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Bromomethane	<0.0039		0.0039	0.0019	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Carbon disulfide	<0.0039		0.0039	0.00071	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Carbon tetrachloride	<0.0015		0.0015	0.00053	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Chlorobenzene	<0.0015		0.0015	0.00065	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Chloroethane	<0.0039		0.0039	0.0013	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Chloroform	<0.0015		0.0015	0.0011	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Chloromethane	<0.0039		0.0039	0.00075	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00062	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00062	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Dibromochloromethane	<0.0015		0.0015	0.00072	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Ethylbenzene	<0.0015		0.0015	0.00081	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00050	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Methylene Chloride	<0.0039		0.0039	0.0017	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Styrene	<0.0015		0.0015	0.00070	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Tetrachloroethene	<0.0015		0.0015	0.00087	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Toluene	<0.0015		0.0015	0.00031	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00059	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00074	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Trichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Vinyl chloride	<0.0015		0.0015	0.00063	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1
Xylenes, Total	<0.0031		0.0031	0.00053	mg/Kg	☼	07/20/24 07:41	07/22/24 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 134*	*07/20/24 07:41*	*07/22/24 13:44*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*07/20/24 07:41*	*07/22/24 13:44*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 126*	*07/20/24 07:41*	*07/22/24 13:44*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*07/20/24 07:41*	*07/22/24 13:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B02-2
Date Collected: 07/18/24 11:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-6
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2-Methylnaphthalene	<0.076		0.076	0.0075	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
4-Chloroaniline	<0.76		0.76	0.39	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Acenaphthylene	<0.037		0.037	0.0064	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Anthracene	<0.037		0.037	0.0077	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Benzo[a]anthracene	<0.037		0.037	0.0080	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0081	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Chrysene	<0.037		0.037	0.0099	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Fluoranthene	<0.037		0.037	0.0087	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253798-1

Client Sample ID: 2861V2-15-B02-2
Date Collected: 07/18/24 11:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-6
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.037	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Naphthalene	<0.037		0.037	0.0068	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0074	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Pentachlorophenol	<0.76		0.76	0.094	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Phenanthrene	<0.037		0.037	0.0082	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Phenol	<0.19		0.19	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*31 - 143*	*07/22/24 15:17*	*07/23/24 18:14*	*1*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*07/22/24 15:17*	*07/23/24 18:14*	*1*
2-Fluorophenol (Surr)	*65*		*31 - 166*	*07/22/24 15:17*	*07/23/24 18:14*	*1*
Nitrobenzene-d5 (Surr)	*64*		*37 - 147*	*07/22/24 15:17*	*07/23/24 18:14*	*1*
Phenol-d5 (Surr)	*67*		*30 - 153*	*07/22/24 15:17*	*07/23/24 18:14*	*1*
Terphenyl-d14 (Surr)	*82*		*42 - 157*	*07/22/24 15:17*	*07/23/24 18:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.42	mg/Kg	☼	07/30/24 09:35	08/02/24 19:22	1
Arsenic	**7.2**		1.1	0.37	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Barium	**38**		1.1	0.12	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Beryllium	**0.61**		0.44	0.10	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Boron	**18**		5.4	0.51	mg/Kg	☼	07/30/24 09:35	08/02/24 19:22	1
Cadmium	<0.22		0.22	0.039	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Calcium	**39000**	**B**	22	3.7	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Chromium	**20**		1.1	0.54	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Cobalt	**15**		0.54	0.14	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Copper	**20**		1.1	0.30	mg/Kg	☼	07/30/24 09:35	08/02/24 19:22	1
Iron	**20000**		22	11	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Lead	**13**		0.54	0.25	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Magnesium	**21000**		11	5.4	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Manganese	**360**		1.1	0.16	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Nickel	**34**		1.1	0.32	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Potassium	**3300**		54	19	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Selenium	<1.1		1.1	0.64	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Silver	**0.52**	**J**	0.54	0.14	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Sodium	**240**	**B**	110	16	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Thallium	**2.2**		1.1	0.54	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Vanadium	**25**		0.54	0.13	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1
Zinc	**60**	**B**	2.2	0.96	mg/Kg	☼	07/30/24 09:35	08/02/24 03:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.86**		0.20	0.20	mg/L		07/25/24 14:55	08/01/24 23:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/25/24 14:55	08/01/24 23:21	1
Manganese	**1.7**		0.025	0.010	mg/L		07/25/24 14:55	08/01/24 23:21	1

Client Sample ID: 2861V2-15-B02-2

Date Collected: 07/18/24 11:15
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253798-6

Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.029**	**J**	0.050	0.010	mg/L		07/25/24 14:59	08/02/24 03:59	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		07/25/24 14:59	08/02/24 03:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/25/24 14:59	08/02/24 03:59	1
Boron	**0.11**		0.10	0.050	mg/L		07/25/24 14:59	08/02/24 16:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/25/24 14:59	08/02/24 03:59	1
Calcium	**35**		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 03:59	1
Chromium	**0.080**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:59	1
Cobalt	**0.021**	**J**	0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:59	1
Iron	**76**		0.40	0.20	mg/L		07/25/24 14:59	08/02/24 03:59	1
Lead	**0.060**		0.0075	0.0075	mg/L		07/25/24 14:59	08/02/24 03:59	1
Manganese	**0.29**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:59	1
Nickel	**0.089**		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:59	1
Potassium	**19**		2.5	0.50	mg/L		07/25/24 14:59	08/02/24 03:59	1
Selenium	<0.050		0.050	0.020	mg/L		07/25/24 14:59	08/02/24 03:59	1
Silver	<0.025		0.025	0.010	mg/L		07/25/24 14:59	08/02/24 03:59	1
Zinc	**0.21**	**J**	0.50	0.020	mg/L		07/25/24 14:59	08/02/24 03:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/25/24 14:55	08/05/24 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0028**	**J**	0.0060	0.0013	mg/L		07/25/24 14:59	07/31/24 17:21	1
Thallium	**0.0024**		0.0020	0.00057	mg/L		07/25/24 14:59	07/31/24 17:21	1

Method: SW846 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		08/01/24 08:10	08/01/24 15:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.017	0.0072	mg/Kg	☼	08/01/24 18:30	08/02/24 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	☼	07/30/24 12:30	07/31/24 16:15	1
pH (SW846 9045D)	**8.7**		0.2	0.2	SU			07/25/24 13:41	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-253798-1
Project/Site: IDOT - AE8-032A

Qualifiers

GC/MS Semi VOA

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

Metals

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

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 - AE8-032A

Job ID: 500-253798-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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

500-253798 COC

Laboratory

Lab **Eurofins - Chicago**
Address **2417 Bond Street**
University Park, IL 60484
Phone **708-534-5200**
Contact **Jodie Bracken**
email Jodie Bracken@ET EurofinsUS com

Project Name AES 032A
Project No PTB/WO#. 1950002/32A
TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler: Pablo Fernandez

COC No 1 of 1
Lab Job No.: 500-253798
Sample Temp 4.9 - 4.6 3.4 - 3.1, 3.8 - 3.5

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	286IV2-15B01-1	07/18/24	1000	S	X	X					X	X	X	X	X					
2	286IV2-15B01-2		1015																	
3	286IV2-15B01-3		1030																	
4	286IV2-15B02DUP		1045																	
5	286IV2-15B02-1		1100																	
6	286IV2-15B02-2		1115																	
7	286IV2-15B03		1130																	
8	Trip Blank #1				X															

Relinquished by		Date/Time 07/19/24	Received by	Date/Time 7/19/24 0905
Relinquished by		Date/Time 7/19/24 1805	Received by	Date/Time 7/19/24 1305
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 3562 (Joliet Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
6345 Joliet Road

City: Countryside State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.77478 (Decimal Degrees) Longitude: -87.87687 (-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.): 163

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 3562 (Joliet Road) Latitude: 41.77478 Longitude: - 87.87687

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 2861V2-16-B01 WAS SAMPLED AT SITE 2861V2-16. 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253801-1.

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

I, Savo Radulovic, L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Savo Radulovic
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

Oct 3, 2024
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 2861V2-16
Sam D. Macaluso &
Associates

Sample ID	2861V2-16-B01	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-6					
Sample Date	7/18/2024	[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	8.4					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 8:15:21 AM

JOB DESCRIPTION

IDOT - AE8-032A

JOB NUMBER

500-253801-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

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

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

Authorization

Generated
8/6/2024 8:15:21 AM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
Designee for
Jodie Bracken, Project Manager I
Jodie.Bracken@ET.EurofinsUS.com
(708)534-5200

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253801-1

Client Sample ID: 2861V2-16-B01
Date Collected: 07/18/24 11:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253801-1
Matrix: Solid
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00087	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.0011	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00080	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
1,1-Dichloroethane	<0.0021		0.0021	0.00081	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
1,1-Dichloroethene	<0.0021		0.0021	0.00088	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
1,2-Dichloroethane	<0.0054		0.0054	0.0014	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.0010	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
2-Hexanone	<0.0054		0.0054	0.0033	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0038	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Benzene	<0.0021		0.0021	0.00067	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Bromodichloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Bromoform	<0.0021		0.0021	0.0012	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Bromomethane	<0.0054		0.0054	0.0026	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Carbon disulfide	<0.0054		0.0054	0.00099	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Carbon tetrachloride	<0.0021		0.0021	0.00073	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Chlorobenzene	<0.0021		0.0021	0.00090	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Chloroethane	<0.0054		0.0054	0.0018	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Chloroform	<0.0021		0.0021	0.0015	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Chloromethane	<0.0054		0.0054	0.0010	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00086	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00086	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Dibromochloromethane	<0.0021		0.0021	0.00099	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Ethylbenzene	<0.0021		0.0021	0.0011	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00069	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Methylene Chloride	<0.0054		0.0054	0.0023	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Styrene	<0.0021		0.0021	0.00096	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Tetrachloroethene	<0.0021		0.0021	0.0012	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Toluene	<0.0021		0.0021	0.00043	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00081	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.0010	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Trichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Vinyl chloride	<0.0021		0.0021	0.00087	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1
Xylenes, Total	<0.0043		0.0043	0.00073	mg/Kg	☼	07/20/24 07:41	07/22/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 134*	*07/20/24 07:41*	*07/22/24 14:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*07/20/24 07:41*	*07/22/24 14:57*	*1*
Dibromofluoromethane (Surr)	*122*		*75 - 126*	*07/20/24 07:41*	*07/22/24 14:57*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*07/20/24 07:41*	*07/22/24 14:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.031	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
1,2-Dichlorobenzene	<0.22		0.22	0.018	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
1,3-Dichlorobenzene	<0.22		0.22	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
1,4-Dichlorobenzene	<0.22		0.22	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.031	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253801-1

Client Sample ID: 2861V2-16-B01
Date Collected: 07/18/24 11:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253801-1
Matrix: Solid
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2,4,6-Trichlorophenol	<0.43		0.43	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2,4-Dichlorophenol	<0.43		0.43	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2,4-Dimethylphenol	<0.43		0.43	0.097	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2,4-Dinitrophenol	<0.87		0.87	0.25	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2,4-Dinitrotoluene	<0.22		0.22	0.025	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2,6-Dinitrotoluene	<0.22		0.22	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2-Chloronaphthalene	<0.22		0.22	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2-Chlorophenol	<0.22		0.22	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2-Methylnaphthalene	<0.087		0.087	0.0087	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2-Methylphenol	<0.22		0.22	0.023	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2-Nitroaniline	<0.22		0.22	0.023	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
2-Nitrophenol	<0.43		0.43	0.029	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
3 & 4 Methylphenol	<0.22		0.22	0.032	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.035	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
3-Nitroaniline	<0.43		0.43	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.24	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.029	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
4-Chloro-3-methylphenol	<0.43		0.43	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
4-Chloroaniline	<0.87		0.87	0.45	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
4-Nitroaniline	<0.43		0.43	0.032	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
4-Nitrophenol	<0.87		0.87	0.16	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Acenaphthene	<0.043		0.043	0.0088	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Acenaphthylene	<0.043		0.043	0.0073	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Anthracene	<0.043		0.043	0.0088	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Benzo[a]anthracene	**0.016**	**J**	0.043	0.0091	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Benzo[a]pyrene	<0.043		0.043	0.042	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Benzo[b]fluoranthene	<0.043		0.043	0.041	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Benzo[g,h,i]perylene	<0.043		0.043	0.0093	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Benzo[k]fluoranthene	<0.043		0.043	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.016	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.17	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Butyl benzyl phthalate	<0.22		0.22	0.021	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Carbazole	<0.22		0.22	0.017	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Chrysene	**0.040**	**J**	0.043	0.011	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Dibenz(a,h)anthracene	<0.043		0.043	0.043	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Dibenzofuran	<0.22		0.22	0.015	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Diethyl phthalate	<0.22		0.22	0.020	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Dimethyl phthalate	<0.22		0.22	0.0094	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Di-n-butyl phthalate	<0.22		0.22	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Di-n-octyl phthalate	<0.43		0.43	0.30	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Fluoranthene	**0.029**	**J**	0.043	0.010	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Fluorene	<0.043		0.043	0.013	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Hexachlorobenzene	<0.087		0.087	0.0083	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Hexachlorobutadiene	<0.22		0.22	0.024	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Hexachlorocyclopentadiene	<0.87		0.87	0.46	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Hexachloroethane	<0.22		0.22	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253801-1

Client Sample ID: 2861V2-16-B01
Date Collected: 07/18/24 11:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253801-1
Matrix: Solid
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.042	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Isophorone	<0.22		0.22	0.022	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Naphthalene	<0.043		0.043	0.0078	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Nitrobenzene	<0.043		0.043	0.014	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.0085	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
N-Nitrosodiphenylamine	<0.22		0.22	0.026	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Pentachlorophenol	<0.87		0.87	0.11	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Phenanthrene	**0.050**		0.043	0.0094	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Phenol	<0.22		0.22	0.019	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1
Pyrene	**0.032**	**J**	0.043	0.012	mg/Kg	☼	07/22/24 15:17	07/23/24 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*31 - 143*	*07/22/24 15:17*	*07/23/24 21:10*	*1*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*07/22/24 15:17*	*07/23/24 21:10*	*1*
2-Fluorophenol (Surr)	*68*		*31 - 166*	*07/22/24 15:17*	*07/23/24 21:10*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*07/22/24 15:17*	*07/23/24 21:10*	*1*
Phenol-d5 (Surr)	*72*		*30 - 153*	*07/22/24 15:17*	*07/23/24 21:10*	*1*
Terphenyl-d14 (Surr)	*87*		*42 - 157*	*07/22/24 15:17*	*07/23/24 21:10*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.4		2.4	0.46	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Arsenic	**7.9**		1.2	0.40	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Barium	**130**		1.2	0.13	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Beryllium	**0.83**		0.47	0.11	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Boron	**9.1**	**B**	5.9	0.55	mg/Kg	☼	07/30/24 15:16	08/01/24 19:10	1
Cadmium	**0.11**	**J**	0.24	0.042	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Calcium	**5100**	**B F1 F2**	24	4.0	mg/Kg	☼	07/30/24 15:16	08/01/24 19:10	1
Chromium	**17**		1.2	0.58	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Cobalt	**11**		0.59	0.15	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Copper	**19**		1.2	0.33	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Iron	**21000**		24	12	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Lead	**22**		0.59	0.27	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Magnesium	**2900**		12	5.8	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Manganese	**500**		1.2	0.17	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Nickel	**24**		1.2	0.34	mg/Kg	☼	07/30/24 15:16	08/01/24 19:10	1
Potassium	**2100**		59	21	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Selenium	**1.3**		1.2	0.69	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Silver	<0.59		0.59	0.15	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Sodium	**240**		120	17	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Thallium	**1.3**		1.2	0.59	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Vanadium	**33**		0.59	0.14	mg/Kg	☼	07/30/24 15:16	08/01/24 00:56	1
Zinc	**70**		2.4	1.0	mg/Kg	☼	07/30/24 15:16	08/01/24 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.43**		0.20	0.20	mg/L		07/23/24 15:30	08/02/24 03:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:30	08/02/24 03:26	1
Manganese	**0.039**	**B**	0.025	0.010	mg/L		07/23/24 15:30	08/02/24 15:48	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253801-1

Client Sample ID: 2861V2-16-B01

Date Collected: 07/18/24 11:45
Date Received: 07/19/24 13:05

Lab Sample ID: 500-253801-1

Matrix: Solid
Percent Solids: 76.8

Method: SW846 6010D - 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		07/23/24 16:03	08/01/24 19:41	1
Barium	**0.57**		0.50	0.050	mg/L		07/23/24 16:03	08/01/24 19:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 16:03	08/01/24 19:41	1
Boron	**0.069**	**J**	0.10	0.050	mg/L		07/23/24 16:03	08/01/24 19:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 16:03	08/01/24 19:41	1
Calcium	**14**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:41	1
Chromium	**0.083**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:41	1
Cobalt	**0.015**	**J**	0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:41	1
Iron	**53**		0.40	0.20	mg/L		07/23/24 16:03	08/01/24 19:41	1
Lead	**0.035**		0.0075	0.0075	mg/L		07/23/24 16:03	08/01/24 19:41	1
Manganese	**0.28**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:41	1
Nickel	**0.061**		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:41	1
Potassium	**15**		2.5	0.50	mg/L		07/23/24 16:03	08/01/24 19:41	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 16:03	08/01/24 19:41	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 16:03	08/01/24 19:41	1
Zinc	**0.26**	**J**	0.50	0.020	mg/L		07/23/24 16:03	08/01/24 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 16:03	07/25/24 18:02	1
Thallium	**0.0017**	**J**	0.0020	0.00057	mg/L		07/23/24 16:03	07/25/24 18:02	1

Method: SW846 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		07/31/24 10:20	08/01/24 10:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.019	0.0079	mg/Kg	☼	07/31/24 16:40	08/01/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.24**	**J**	0.30	0.15	mg/Kg	☼	08/01/24 09:07	08/01/24 15:28	1
pH (SW846 9045D)	**8.4**		0.2	0.2	SU			07/25/24 14:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253801-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-032A

Job ID: 500-253801-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact	Laboratory	
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng com 500-253801 COC	Lab **Eurofins - Chicago** Address **2417 Bond Street** **University Park, IL 60484** Phone **708-534-5200** Contact **Jodie Bracken** email Jodie Bracken@ET EurofinsUS com	Project Name AES 032A Project No PTB/WO #: 195000232A TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other Sampler: Pablo Fernandez

COC No 1 of 1

Lab Job No.: 500-253801

Sample Temp: 4.9-4.6

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	280172-16-B01	07/18/24	1145	S	X	X					X	X	X	X	X					

Relinquished by	Date/Time 07/19/24	Received by	Date/Time 7/20/24 0845
Relinquished by	Date/Time 7/19/24 1305	Received by	Date/Time 7/19/24 1305
Relinquished by	Date/Time	Received by	Date/Time