



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 305 (US 14) at Hughes/Hartland Road Office Phone Number, if available: _____

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

Southeast and southwest corners of the intersection of US 14 and Hughes Road

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Hartland

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

Latitude: 42.33894 Longitude: -88.51126
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 62

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

LOCATION 62N45-B01 WAS SAMPLED ADJACENT TO SITE 62N45. SEE TABLE 3 AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-210854-1.


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

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

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.

ISGS Site 62N45

Agricultural Land

Sample ID	62N45-B01-1	62N45-B01-2	62N45-B01-2 DUP	Maximum Allowable Concentration				
Sample Depth (ft)	0-7.5	7.5-15	7.5-15	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	1/12/2022	1/12/2022	1/12/2022					
PID	0	0	0					
Sample pH	7.8	8.5	8.8					
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

ANALYTICAL REPORT

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

Laboratory Job ID: 500-210854-1
Client Project/Site: IDOT - AE7-055

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/27/2022 9:39:37 AM

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

LINKS

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-1

Lab Sample ID: 500-210854-1

Date Collected: 01/12/22 11:00

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
2-Butanone (MEK)	0.0099		0.0047	0.0021	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Acetone	0.081		0.019	0.0082	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✱	01/13/22 17:42	01/20/22 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	01/13/22 17:42	01/20/22 19:13	1
4-Bromofluorobenzene (Surr)	110		75 - 131	01/13/22 17:42	01/20/22 19:13	1
Dibromofluoromethane	116		75 - 126	01/13/22 17:42	01/20/22 19:13	1
Toluene-d8 (Surr)	108		75 - 124	01/13/22 17:42	01/20/22 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✱	01/21/22 18:55	01/23/22 13:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	01/21/22 18:55	01/23/22 13:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	01/21/22 18:55	01/23/22 13:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	01/21/22 18:55	01/23/22 13:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	01/21/22 18:55	01/23/22 13:26	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-1

Lab Sample ID: 500-210854-1

Date Collected: 01/12/22 11:00

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Chrysene	<0.039		0.039	0.011	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-1

Lab Sample ID: 500-210854-1

Date Collected: 01/12/22 11:00

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Phenol	<0.20		0.20	0.088	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	✳	01/21/22 18:55	01/23/22 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		31 - 143				01/21/22 18:55	01/23/22 13:26	1
2-Fluorobiphenyl	73		43 - 145				01/21/22 18:55	01/23/22 13:26	1
2-Fluorophenol	87		31 - 166				01/21/22 18:55	01/23/22 13:26	1
Nitrobenzene-d5 (Surr)	60		37 - 147				01/21/22 18:55	01/23/22 13:26	1
Phenol-d5	70		30 - 153				01/21/22 18:55	01/23/22 13:26	1
Terphenyl-d14 (Surr)	64		42 - 157				01/21/22 18:55	01/23/22 13:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J F1 B	1.1	0.22	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Arsenic	3.2		0.57	0.19	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Barium	50		0.57	0.065	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Beryllium	0.39		0.23	0.053	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Boron	1.8	J F1	2.8	0.26	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Cadmium	0.11	B	0.11	0.020	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Calcium	2900		11	1.9	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Chromium	8.7	F1 F2	0.57	0.28	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Cobalt	4.4		1.4	0.37	mg/Kg	✳	01/25/22 10:04	01/26/22 14:03	5
Copper	9.5		0.57	0.16	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Iron	10000		11	5.9	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Lead	6.2	B	0.28	0.13	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Magnesium	2700	F2	5.7	2.8	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Manganese	300	B	0.57	0.082	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Nickel	13		0.57	0.16	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Potassium	480	F1	28	10	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Selenium	<0.57		0.57	0.33	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Silver	0.25	J	0.28	0.073	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Sodium	630	F1	57	8.4	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Thallium	<0.57		0.57	0.28	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Vanadium	23		0.28	0.067	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1
Zinc	29		1.1	0.50	mg/Kg	✳	01/25/22 10:04	01/26/22 11:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/22 08:02	01/21/22 17:12	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/22 08:02	01/21/22 17:12	1
Iron	4.2		0.40	0.20	mg/L		01/21/22 08:02	01/21/22 17:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/22 08:02	01/21/22 17:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-1

Lab Sample ID: 500-210854-1

Date Collected: 01/12/22 11:00

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	8.9		0.025	0.010	mg/L		01/21/22 08:02	01/21/22 17:12	1
Nickel	0.028		0.025	0.010	mg/L		01/21/22 08:02	01/21/22 17:12	1

Method: 6010B - 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		01/21/22 08:05	01/24/22 16:34	1
Barium	1.1		0.50	0.050	mg/L		01/21/22 08:05	01/24/22 16:34	1
Beryllium	0.0059		0.0040	0.0040	mg/L		01/21/22 08:05	01/24/22 16:34	1
Boron	0.075	J ^+	0.10	0.050	mg/L		01/21/22 08:05	01/24/22 16:34	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		01/21/22 08:05	01/24/22 16:34	1
Calcium	13		2.5	0.50	mg/L		01/21/22 08:05	01/24/22 16:34	1
Chromium	0.14		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:34	1
Cobalt	0.039		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:34	1
Iron	140	^2	0.40	0.20	mg/L		01/21/22 08:05	01/24/22 16:34	1
Lead	0.070		0.0075	0.0075	mg/L		01/21/22 08:05	01/24/22 16:34	1
Manganese	3.5		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:34	1
Nickel	0.12		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:34	1
Potassium	12		2.5	0.50	mg/L		01/21/22 08:05	01/24/22 16:34	1
Selenium	<0.050	^+	0.050	0.020	mg/L		01/21/22 08:05	01/24/22 16:34	1
Silver	<0.025		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:34	1
Zinc	0.35	J	0.50	0.020	mg/L		01/21/22 08:05	01/24/22 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/21/22 08:02	01/24/22 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/21/22 08:05	01/21/22 18:02	1
Thallium	0.0021		0.0020	0.0020	mg/L		01/21/22 08:05	01/21/22 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/24/22 15:50	01/25/22 10:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0060	mg/Kg	☆	01/21/22 13:00	01/24/22 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20	J	0.27	0.14	mg/Kg	☆	01/23/22 14:34	01/23/22 16:54	1
pH	7.8		0.2	0.2	SU			01/19/22 19:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-2

Lab Sample ID: 500-210854-2

Date Collected: 01/12/22 11:30

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0023		0.0023	0.00077	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00074	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00099	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
1,1-Dichloroethene	<0.0023		0.0023	0.00079	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
1,2-Dichloroethane	<0.0058		0.0058	0.0018	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
1,2-Dichloropropane	<0.0023		0.0023	0.00060	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00081	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
2-Butanone (MEK)	<0.0058		0.0058	0.0026	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0017	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Acetone	<0.023		0.023	0.010	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Benzene	<0.0023		0.0023	0.00059	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Bromoform	<0.0023		0.0023	0.00067	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Bromomethane	<0.0058		0.0058	0.0022	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Carbon disulfide	<0.0058		0.0058	0.0012	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Carbon tetrachloride	<0.0023		0.0023	0.00067	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Chlorobenzene	<0.0023		0.0023	0.00085	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Chloroethane	<0.0058		0.0058	0.0017	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Chloroform	<0.0023		0.0023	0.00080	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Chloromethane	<0.0058		0.0058	0.0023	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00069	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Dibromochloromethane	<0.0023		0.0023	0.00075	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00068	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Methylene Chloride	<0.0058		0.0058	0.0023	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Styrene	<0.0023		0.0023	0.00070	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Toluene	<0.0023		0.0023	0.00058	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1
Xylenes, Total	<0.0046		0.0046	0.00074	mg/Kg	✱	01/13/22 17:42	01/20/22 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	01/13/22 17:42	01/20/22 19:39	1
4-Bromofluorobenzene (Surr)	100		75 - 131	01/13/22 17:42	01/20/22 19:39	1
Dibromofluoromethane	117		75 - 126	01/13/22 17:42	01/20/22 19:39	1
Toluene-d8 (Surr)	108		75 - 124	01/13/22 17:42	01/20/22 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-2

Lab Sample ID: 500-210854-2

Date Collected: 01/12/22 11:30

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2,4-Dimethylphenol	<0.36	F2	0.36	0.14	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2,4-Dinitrophenol	<0.73	F2	0.73	0.64	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
3 & 4 Methylphenol	<0.18	F2	0.18	0.061	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
4-Chloro-3-methylphenol	<0.36	F1	0.36	0.12	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
4-Chloroaniline	<0.73	F2	0.73	0.17	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
4-Nitrophenol	<0.73	F1	0.73	0.35	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Carbazole	<0.18		0.18	0.091	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-2

Lab Sample ID: 500-210854-2

Date Collected: 01/12/22 11:30

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Isophorone	<0.18		0.18	0.041	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Pentachlorophenol	<0.73	F2	0.73	0.58	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Phenol	<0.18	F2	0.18	0.081	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	✱	01/21/22 18:55	01/23/22 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		31 - 143	01/21/22 18:55	01/23/22 13:50	1
2-Fluorobiphenyl	88		43 - 145	01/21/22 18:55	01/23/22 13:50	1
2-Fluorophenol	101		31 - 166	01/21/22 18:55	01/23/22 13:50	1
Nitrobenzene-d5 (Surr)	76		37 - 147	01/21/22 18:55	01/23/22 13:50	1
Phenol-d5	101		30 - 153	01/21/22 18:55	01/23/22 13:50	1
Terphenyl-d14 (Surr)	91		42 - 157	01/21/22 18:55	01/23/22 13:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J B	1.1	0.21	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Arsenic	3.4		0.54	0.19	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Barium	16		0.54	0.062	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Beryllium	0.14	J	0.22	0.051	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Boron	1.1	J	2.7	0.25	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Calcium	8500		11	1.8	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Chromium	3.3		0.54	0.27	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Cobalt	1.3		0.27	0.071	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Copper	3.6		0.54	0.15	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Iron	6400		11	5.7	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Lead	1.4	B	0.27	0.13	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Magnesium	5100		5.4	2.7	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Manganese	73	B	0.54	0.079	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Nickel	3.8		0.54	0.16	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Potassium	200		27	9.6	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Selenium	<0.54		0.54	0.32	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Silver	0.14	J	0.27	0.070	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Sodium	200		54	8.0	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Thallium	<0.54		0.54	0.27	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Vanadium	8.6		0.27	0.064	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1
Zinc	7.4		1.1	0.48	mg/Kg	✱	01/25/22 10:04	01/26/22 11:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.7		0.20	0.20	mg/L		01/21/22 08:02	01/21/22 17:15	1
Manganese	1.4		0.025	0.010	mg/L		01/21/22 08:02	01/21/22 17:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-2

Lab Sample ID: 500-210854-2

Date Collected: 01/12/22 11:30

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/22 08:05	01/24/22 16:38	1
Barium	0.17	J	0.50	0.050	mg/L		01/21/22 08:05	01/24/22 16:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/22 08:05	01/24/22 16:38	1
Boron	<0.10	^+	0.10	0.050	mg/L		01/21/22 08:05	01/24/22 16:38	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		01/21/22 08:05	01/24/22 16:38	1
Calcium	6.7		2.5	0.50	mg/L		01/21/22 08:05	01/24/22 16:38	1
Chromium	0.024	J	0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:38	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:38	1
Iron	39	^2	0.40	0.20	mg/L		01/21/22 08:05	01/24/22 16:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/22 08:05	01/24/22 16:38	1
Manganese	0.29		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:38	1
Nickel	0.021	J	0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:38	1
Potassium	2.9		2.5	0.50	mg/L		01/21/22 08:05	01/24/22 16:38	1
Selenium	<0.050	^+	0.050	0.020	mg/L		01/21/22 08:05	01/24/22 16:38	1
Silver	<0.025		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:38	1
Zinc	0.052	J	0.50	0.020	mg/L		01/21/22 08:05	01/24/22 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/21/22 08:05	01/21/22 18:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/21/22 08:05	01/21/22 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/24/22 15:50	01/25/22 10:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0061	mg/Kg	⊛	01/21/22 13:00	01/24/22 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19	J	0.27	0.13	mg/Kg	⊛	01/23/22 14:34	01/23/22 16:56	1
pH	8.5		0.2	0.2	SU			01/19/22 19:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-2 Dup

Lab Sample ID: 500-210854-3

Date Collected: 01/12/22 12:00

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Acetone	0.010	J	0.019	0.0081	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✱	01/13/22 17:42	01/20/22 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	01/13/22 17:42	01/20/22 20:05	1
4-Bromofluorobenzene (Surr)	108		75 - 131	01/13/22 17:42	01/20/22 20:05	1
Dibromofluoromethane	118		75 - 126	01/13/22 17:42	01/20/22 20:05	1
Toluene-d8 (Surr)	107		75 - 124	01/13/22 17:42	01/20/22 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	✱	01/21/22 18:55	01/23/22 15:04	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✱	01/21/22 18:55	01/23/22 15:04	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	✱	01/21/22 18:55	01/23/22 15:04	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✱	01/21/22 18:55	01/23/22 15:04	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✱	01/21/22 18:55	01/23/22 15:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-2 Dup

Lab Sample ID: 500-210854-3

Date Collected: 01/12/22 12:00

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2-Methylnaphthalene	<0.072		0.072	0.0065	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	01/21/22 18:55	01/23/22 15:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-2 Dup

Lab Sample ID: 500-210854-3

Date Collected: 01/12/22 12:00

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
Isophorone	<0.18		0.18	0.040	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.043	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
Phenol	<0.18		0.18	0.079	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1
Pyrene	<0.035		0.035	0.0071	mg/Kg	✳	01/21/22 18:55	01/23/22 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		31 - 143	01/21/22 18:55	01/23/22 15:04	1
2-Fluorobiphenyl	82		43 - 145	01/21/22 18:55	01/23/22 15:04	1
2-Fluorophenol	82		31 - 166	01/21/22 18:55	01/23/22 15:04	1
Nitrobenzene-d5 (Surr)	71		37 - 147	01/21/22 18:55	01/23/22 15:04	1
Phenol-d5	75		30 - 153	01/21/22 18:55	01/23/22 15:04	1
Terphenyl-d14 (Surr)	82		42 - 157	01/21/22 18:55	01/23/22 15:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Arsenic	1.1		0.51	0.17	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Barium	12		0.51	0.058	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Beryllium	0.081	J	0.20	0.047	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Boron	1.2	J	2.5	0.24	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Cadmium	0.072	J B	0.10	0.018	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Calcium	13000		10	1.7	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Chromium	3.2		0.51	0.25	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Cobalt	1.1		0.25	0.067	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Copper	2.8		0.51	0.14	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Iron	3800		10	5.3	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Lead	1.2	B	0.25	0.12	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Magnesium	8000		5.1	2.5	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Manganese	91	B	0.51	0.074	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Nickel	3.0		0.51	0.15	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Potassium	190		25	9.0	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Selenium	<0.51		0.51	0.30	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Silver	0.068	J	0.25	0.066	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Sodium	170		51	7.5	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Thallium	<0.51		0.51	0.25	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Vanadium	7.3		0.25	0.060	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1
Zinc	6.5		1.0	0.45	mg/Kg	✳	01/25/22 10:04	01/26/22 11:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.56		0.20	0.20	mg/L		01/21/22 08:02	01/21/22 17:19	1
Manganese	2.0		0.025	0.010	mg/L		01/21/22 08:02	01/21/22 17:19	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Client Sample ID: 62N45-B01-2 Dup

Lab Sample ID: 500-210854-3

Date Collected: 01/12/22 12:00

Matrix: Solid

Date Received: 01/13/22 10:45

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/22 08:05	01/24/22 16:41	1
Barium	0.10	J	0.50	0.050	mg/L		01/21/22 08:05	01/24/22 16:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/22 08:05	01/24/22 16:41	1
Boron	<0.10	^+	0.10	0.050	mg/L		01/21/22 08:05	01/24/22 16:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/22 08:05	01/24/22 16:41	1
Calcium	3.8		2.5	0.50	mg/L		01/21/22 08:05	01/24/22 16:41	1
Chromium	0.015	J	0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:41	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:41	1
Iron	23	^2	0.40	0.20	mg/L		01/21/22 08:05	01/24/22 16:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/22 08:05	01/24/22 16:41	1
Manganese	0.28		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:41	1
Nickel	0.012	J	0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:41	1
Potassium	2.2	J	2.5	0.50	mg/L		01/21/22 08:05	01/24/22 16:41	1
Selenium	<0.050	^+	0.050	0.020	mg/L		01/21/22 08:05	01/24/22 16:41	1
Silver	<0.025		0.025	0.010	mg/L		01/21/22 08:05	01/24/22 16:41	1
Zinc	0.040	J	0.50	0.020	mg/L		01/21/22 08:05	01/24/22 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/21/22 08:05	01/21/22 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/21/22 08:05	01/21/22 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/24/22 15:50	01/25/22 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0058	mg/Kg	⊛	01/21/22 13:00	01/24/22 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.18	J	0.25	0.13	mg/Kg	⊛	01/23/22 14:34	01/23/22 16:58	1
pH	8.8		0.2	0.2	SU			01/19/22 19:47	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

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

Eurofins Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Glossary (Continued)

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

QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-055

Job ID: 500-210854-1

Laboratory: Eurofins Chicago

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

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

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

CHAIN OF CUSTODY RECORD



Client Contact	Laboratory	Project Name <u>AE7-055</u> 500-210854 COC	COC No <u>1</u> of <u>1</u>
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab Test America - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Dick Wright email richard.wright@testamericainc.com	Project No <u>PTB/WO:184-006/055</u> TAT <input type="checkbox"/> 15 BD <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No <u>500-210854</u>
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide		Sampler: <u>S. Khodari, S. Helmig</u>	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments				
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH		% Solids	Waste Characterization		
1	62N45-B01-1	1/12/22	1100	S	X	X						X	X	X	X	X			
2	62N45-B01-2	↓	1130	↓	X	X						X	X	X	X	X			
3	62N45-B01-2 DVP		1200		X	X							X	X	X	X	X		
4	62N45-B02-1		1000		X	X							X	X	X	X	X		
5	62N45-B02-2		1030		X	X							X	X	X	X	X		
6	Trip Blank #1						X												

Matrix Key:

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

Relinquished by <u>[Signature]</u>	Date/Time <u>1/13/22 1000</u>	Received by <u>[Signature]</u>	Date/Time <u>1/13/22 1000</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>1/13/22 1045</u>	Received by <u>Stephanie Hernandez EETA</u>	Date/Time <u>1/13/22 1045</u>
Relinquished by	Date/Time	Received by	Date/Time