



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 335 (IL 176) Office Phone Number, if available: _____

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

1722-1820 IL 176, 1710-1718 Blue Island Avenue, 3615-3616 Highview Drive, and 1711-1811 Nish Road

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27795 Longitude: -88.231
(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.): 512

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)]:

OCATIONS 2582V2-1-B01, 2582V2-1-B04 AND 2582V2-1-B05 WERE SAMPLED ADJACENT TO SITE 2582V2-1. SEE TABLE 3a 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 NUMBERS: 500-182265-1 AND 500-182337-1.

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:

Aug 3, 2020
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

ISGS Site 2582V2-1

Residence

Sample ID	2582V2-1-B01-1	2582V2-1-B01-2	2582V2-1-B04-1	2582V2-1-B04-2	2582V2-1-B05-1	Maximum Allowable Concentration				
Sample Depth (ft)	0-4.5	4.5-9	0-4.5	4.5-9	0-4.5	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	5/19/2020	5/19/2020	5/20/2020	5/20/2020	5/20/2020					
PID	0	0	0	0	0					
Sample pH	7.3	7.7	9	8.6	8.3					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

Sample ID	2582V2-1-B05-2	2582V2-1-B05-2 DUP	Maximum Allowable Concentration				
Sample Depth (ft)	4.5-9	4.5-9	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	5/20/2020	5/20/2020					
PID	0	0					
Sample pH	7.2	7.4					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182265-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 10:28:21 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182265-1

Client Sample ID: 2582V2-1-B01-1

Lab Sample ID: 500-182265-1

Date Collected: 05/19/20 12:30

Matrix: Solid

Date Received: 05/19/20 18:02

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Chloroethane	<0.0045 *		0.0045	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	05/19/20 18:19	05/22/20 02:14	1
4-Bromofluorobenzene (Surr)	99		75 - 131	05/19/20 18:19	05/22/20 02:14	1
Dibromofluoromethane	91		75 - 126	05/19/20 18:19	05/22/20 02:14	1
Toluene-d8 (Surr)	101		75 - 124	05/19/20 18:19	05/22/20 02:14	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	☼	06/01/20 19:25	06/02/20 11:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Client Sample ID: 2582V2-1-B01-1

Lab Sample ID: 500-182265-1

Date Collected: 05/19/20 12:30

Matrix: Solid

Date Received: 05/19/20 18:02

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Benzo[a]anthracene	0.022	J	0.039	0.0053	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Benzo[a]pyrene	0.023	J	0.039	0.0076	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Benzo[b]fluoranthene	0.034	J	0.039	0.0084	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Benzo[g,h,i]perylene	0.016	J	0.039	0.013	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Chrysene	0.027	J	0.039	0.011	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Fluoranthene	0.036	J	0.039	0.0072	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Client Sample ID: 2582V2-1-B01-1

Lab Sample ID: 500-182265-1

Date Collected: 05/19/20 12:30

Matrix: Solid

Date Received: 05/19/20 18:02

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Phenanthrene	0.021	J	0.039	0.0054	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Pyrene	0.029	J	0.039	0.0078	mg/Kg	☼	06/01/20 19:25	06/02/20 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		31 - 143				06/01/20 19:25	06/02/20 11:59	1
2-Fluorobiphenyl	81		43 - 145				06/01/20 19:25	06/02/20 11:59	1
2-Fluorophenol	90		31 - 166				06/01/20 19:25	06/02/20 11:59	1
Nitrobenzene-d5	74		37 - 147				06/01/20 19:25	06/02/20 11:59	1
Phenol-d5	76		30 - 153				06/01/20 19:25	06/02/20 11:59	1
Terphenyl-d14	94		42 - 157				06/01/20 19:25	06/02/20 11:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.2	0.23	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Arsenic	3.4		0.59	0.20	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Barium	75		0.59	0.067	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Beryllium	0.41		0.24	0.055	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Boron	3.8		3.0	0.28	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Cadmium	0.27	B	0.12	0.021	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Calcium	11000	B	12	2.0	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Chromium	10		0.59	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Cobalt	7.3		0.30	0.077	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Copper	23		0.59	0.17	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Iron	10000		12	6.1	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Lead	41		0.30	0.14	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Magnesium	5800	B	5.9	2.9	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Manganese	370	B	0.59	0.086	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Nickel	12		0.59	0.17	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Potassium	740		30	10	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Silver	0.76		0.30	0.076	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Sodium	240		59	8.7	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Vanadium	21		0.30	0.070	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1
Zinc	52		1.2	0.52	mg/Kg	☼	05/21/20 18:25	05/22/20 20:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:01	1
Manganese	9.9		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Client Sample ID: 2582V2-1-B01-1

Lab Sample ID: 500-182265-1

Date Collected: 05/19/20 12:30

Matrix: Solid

Date Received: 05/19/20 18:02

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Barium	0.21	J	0.50	0.050	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Boron	0.12		0.10	0.050	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Calcium	12		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Chromium	0.031		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Cobalt	<0.025		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Iron	23		0.40	0.20	mg/L	-	05/28/20 16:38	05/29/20 08:55	1
Lead	0.038		0.0075	0.0075	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Manganese	0.18		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Nickel	0.023	J	0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Potassium	3.9		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Selenium	<0.050		0.050	0.020	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Silver	<0.025		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 22:51	1
Zinc	0.088	J	0.50	0.020	mg/L	-	05/27/20 06:16	05/27/20 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	05/27/20 06:16	05/27/20 12:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	05/27/20 06:16	05/27/20 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	05/28/20 10:05	05/29/20 08:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.020	0.0066	mg/Kg	☼	05/28/20 14:00	05/29/20 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	06/01/20 13:00	06/01/20 15:58	1
pH	7.3		0.2	0.2	SU			05/20/20 17:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Client Sample ID: 2582V2-1-B01-2

Lab Sample ID: 500-182265-2

Date Collected: 05/19/20 12:35

Matrix: Solid

Date Received: 05/19/20 18:02

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Acetone	0.020		0.018	0.0077	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Chloroethane	<0.0044 *		0.0044	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Methylene Chloride	<0.0044		0.0044	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	05/19/20 18:19	05/22/20 02:40	1
4-Bromofluorobenzene (Surr)	97		75 - 131	05/19/20 18:19	05/22/20 02:40	1
Dibromofluoromethane	93		75 - 126	05/19/20 18:19	05/22/20 02:40	1
Toluene-d8 (Surr)	101		75 - 124	05/19/20 18:19	05/22/20 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Client Sample ID: 2582V2-1-B01-2

Lab Sample ID: 500-182265-2

Date Collected: 05/19/20 12:35

Matrix: Solid

Date Received: 05/19/20 18:02

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.30	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Client Sample ID: 2582V2-1-B01-2

Lab Sample ID: 500-182265-2

Date Collected: 05/19/20 12:35

Matrix: Solid

Date Received: 05/19/20 18:02

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	06/01/20 19:25	06/02/20 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		31 - 143				06/01/20 19:25	06/02/20 12:28	1
2-Fluorobiphenyl	90		43 - 145				06/01/20 19:25	06/02/20 12:28	1
2-Fluorophenol	110		31 - 166				06/01/20 19:25	06/02/20 12:28	1
Nitrobenzene-d5	89		37 - 147				06/01/20 19:25	06/02/20 12:28	1
Phenol-d5	86		30 - 153				06/01/20 19:25	06/02/20 12:28	1
Terphenyl-d14	102		42 - 157				06/01/20 19:25	06/02/20 12:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Arsenic	4.5		0.59	0.20	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Barium	57		0.59	0.067	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Beryllium	0.54		0.24	0.055	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Boron	3.8		2.9	0.27	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Calcium	5700	B	12	2.0	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Chromium	14		0.59	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Cobalt	6.3		0.29	0.077	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Copper	11		0.59	0.16	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Iron	14000		12	6.1	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Lead	7.9		0.29	0.14	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Magnesium	4500	B	5.9	2.9	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Manganese	220	B	0.59	0.085	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Nickel	22		0.59	0.17	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Potassium	1100		29	10	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Silver	1.0		0.29	0.076	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Sodium	710		59	8.7	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Vanadium	25		0.29	0.070	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1
Zinc	45		1.2	0.52	mg/Kg	☼	05/21/20 18:25	05/22/20 20:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:04	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:04	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Client Sample ID: 2582V2-1-B01-2

Lab Sample ID: 500-182265-2

Date Collected: 05/19/20 12:35

Matrix: Solid

Date Received: 05/19/20 18:02

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:04	1
Manganese	6.4		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:04	1
Nickel	0.018	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 22:55	1
Barium	0.81		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 22:55	1
Beryllium	0.0082		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 22:55	1
Boron	0.14		0.10	0.050	mg/L		05/27/20 06:16	05/27/20 22:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 22:55	1
Calcium	19		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:55	1
Chromium	0.20		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:55	1
Cobalt	0.051		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:55	1
Iron	150		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 08:59	1
Lead	0.092		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 22:55	1
Manganese	2.3		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:55	1
Nickel	0.21		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:55	1
Potassium	21		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:55	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 22:55	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:55	1
Zinc	0.50		0.50	0.020	mg/L		05/27/20 06:16	05/27/20 22:55	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		05/28/20 05:59	05/29/20 10:20	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		05/27/20 06:16	05/27/20 12:32	1
Thallium	0.0024		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00032		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 08:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0065	mg/Kg	☼	05/28/20 14:00	05/29/20 07:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.24	mg/Kg	☼	06/01/20 13:00	06/01/20 15:59	1
pH	7.7		0.2	0.2	SU			05/20/20 17:46	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182265-1

Laboratory: Eurofins TestAmerica, Chicago


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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

Client Contact			Laboratory			Project Name: <u>AE7-035A</u>			COC No.: _____ of _____					
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: 184-006/035A</u>			Lab Job No.: <u>500-182265</u>					
						TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other			Sample Temp: <u>2.3</u>					
						Sampler: <u>R. Senow</u>			Matrix Key:					
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.					ANALYSES							 500-182265 COC		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals			
Lab ID	Sample ID	Sample Date	Sample Time	Matrix									Comments	
1	2582V2-1-B01-1	5/19	1230	S	X	X				X	X	X	X	
2	2582V2-1-B01-2	5/19	1235	S	X	X				X	X	X	X	
	2582V2-1-B01-3													
	2582V2-1-B01-4													
	2582V2-1-B01-5													
	2582V2-1-B02-1													
	2582V2-1-B02-2													
	2582V2-1-B02-3													
	2582V2-1-B02-4													
	2582V2-1-B02-5													
	2582V2-1-B03-1													
	2582V2-1-B03-2													
	2582V2-1-B03-3													
	2582V2-1-B03-4													
	2582V2-1-B03-5													
	2582V2-1-B04-1													
	2582V2-1-B04-2													
	2582V2-1-B04-3													
	2582V2-1-B04-4													
	2582V2-1-B04-5													
	2582V2-1-B05-1													
	2582V2-1-B05-2													
	2582V2-1-B05-3													
	2582V2-1-B05-4													
	2582V2-1-B05-5													
Relinquished by: <u>Ken Lee</u>	Date/Time: <u>5/19 1635</u>		Received by: <u>Paula Buckley TA</u>			Date/Time: <u>5/19/20 1635</u>								
Relinquished by:	Date/Time:		Received by:			Date/Time:								
Relinquished by:	Date/Time:		Received by:			Date/Time:								

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182337-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 4:16:42 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-1

Lab Sample ID: 500-182337-1

Date Collected: 05/20/20 09:45

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
2-Butanone (MEK)	0.0090		0.0041	0.0018	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Acetone	0.081		0.016	0.0071	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Bromomethane	<0.0041	*	0.0041	0.0015	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Carbon disulfide	<0.0041		0.0041	0.00084	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1
Xylenes, Total	0.00060	J	0.0032	0.00052	mg/Kg	☼	05/20/20 17:38	05/26/20 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	05/20/20 17:38	05/26/20 14:07	1
4-Bromofluorobenzene (Surr)	100		75 - 131	05/20/20 17:38	05/26/20 14:07	1
Dibromofluoromethane	93		75 - 126	05/20/20 17:38	05/26/20 14:07	1
Toluene-d8 (Surr)	91		75 - 124	05/20/20 17:38	05/26/20 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-1

Lab Sample ID: 500-182337-1

Date Collected: 05/20/20 09:45

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2,4-Dinitrophenol	<0.76	F2	0.76	0.66	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Acenaphthene	0.028	J	0.038	0.0068	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Anthracene	0.037	J	0.038	0.0063	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Benzo[b]fluoranthene	<0.038		0.038	0.0081	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Fluoranthene	0.039		0.038	0.0070	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-1

Lab Sample ID: 500-182337-1

Date Collected: 05/20/20 09:45

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Phenanthrene	0.034	J	0.038	0.0053	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	06/01/20 16:31	06/02/20 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		31 - 143				06/01/20 16:31	06/02/20 14:33	1
2-Fluorobiphenyl	75		43 - 145				06/01/20 16:31	06/02/20 14:33	1
2-Fluorophenol	103		31 - 166				06/01/20 16:31	06/02/20 14:33	1
Nitrobenzene-d5	81		37 - 147				06/01/20 16:31	06/02/20 14:33	1
Phenol-d5	92		30 - 153				06/01/20 16:31	06/02/20 14:33	1
Terphenyl-d14	93		42 - 157				06/01/20 16:31	06/02/20 14:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Arsenic	4.8		0.56	0.19	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Barium	45		0.56	0.063	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Beryllium	0.47		0.22	0.052	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Boron	3.0		2.8	0.26	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Cadmium	0.049	J B	0.11	0.020	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Calcium	7100	B	11	1.9	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Chromium	12	B	0.56	0.28	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Cobalt	6.2		0.28	0.073	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Copper	12		0.56	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Iron	12000		11	5.8	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Lead	9.0		0.28	0.13	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Magnesium	5100		5.6	2.8	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Manganese	290	B	0.56	0.081	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Nickel	19		0.56	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Potassium	870		28	9.9	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Silver	0.87		0.28	0.072	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Sodium	870	B	56	8.2	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Vanadium	24		0.28	0.066	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1
Zinc	42		1.1	0.49	mg/Kg	☼	05/21/20 18:19	05/22/20 10:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:07	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:07	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-1

Lab Sample ID: 500-182337-1

Date Collected: 05/20/20 09:45

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:07	1
Manganese	0.79		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:07	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.074		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 22:59	1
Barium	0.67		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 22:59	1
Beryllium	0.0075		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 22:59	1
Boron	0.11		0.10	0.050	mg/L		05/27/20 06:16	05/27/20 22:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 22:59	1
Calcium	18		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:59	1
Chromium	0.19		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:59	1
Cobalt	0.035		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:59	1
Iron	160		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 09:03	1
Lead	0.18		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 22:59	1
Manganese	1.5		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:59	1
Nickel	0.17		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:59	1
Potassium	14		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:59	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 22:59	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:59	1
Zinc	0.55		0.50	0.020	mg/L		05/27/20 06:16	05/27/20 22:59	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		05/28/20 05:59	05/29/20 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:35	1
Thallium	0.0027		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00046		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 08:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0095	J	0.017	0.0058	mg/Kg	☼	05/28/20 14:00	05/29/20 07:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.37		0.37	0.18	mg/Kg	☼	06/02/20 12:50	06/02/20 15:22	1
pH	8.3		0.2	0.2	SU			05/22/20 13:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-2

Lab Sample ID: 500-182337-2

Date Collected: 05/20/20 09:50

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Acetone	0.082		0.017	0.0075	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1
Xylenes, Total	0.00070	J	0.0034	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	05/20/20 17:38	05/26/20 14:33	1
4-Bromofluorobenzene (Surr)	101		75 - 131	05/20/20 17:38	05/26/20 14:33	1
Dibromofluoromethane	92		75 - 126	05/20/20 17:38	05/26/20 14:33	1
Toluene-d8 (Surr)	91		75 - 124	05/20/20 17:38	05/26/20 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-2

Lab Sample ID: 500-182337-2

Date Collected: 05/20/20 09:50

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Acenaphthene	0.031	J	0.041	0.0074	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Anthracene	0.038	J	0.041	0.0069	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Fluoranthene	0.043		0.041	0.0077	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-2

Lab Sample ID: 500-182337-2

Date Collected: 05/20/20 09:50

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Phenanthrene	0.036	J	0.041	0.0058	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	06/01/20 16:31	06/02/20 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		31 - 143				06/01/20 16:31	06/02/20 15:33	1
2-Fluorobiphenyl	65		43 - 145				06/01/20 16:31	06/02/20 15:33	1
2-Fluorophenol	96		31 - 166				06/01/20 16:31	06/02/20 15:33	1
Nitrobenzene-d5	69		37 - 147				06/01/20 16:31	06/02/20 15:33	1
Phenol-d5	84		30 - 153				06/01/20 16:31	06/02/20 15:33	1
Terphenyl-d14	77		42 - 157				06/01/20 16:31	06/02/20 15:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.2	0.24	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Arsenic	1.9		0.62	0.21	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Barium	6.2		0.62	0.070	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Beryllium	0.16	J	0.25	0.058	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Boron	2.9	J	3.1	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Cadmium	0.082	J B	0.12	0.022	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Calcium	62000	B	120	21	mg/Kg	☼	05/21/20 18:19	05/22/20 19:23	10
Chromium	3.5	B	0.62	0.31	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Cobalt	2.0		0.31	0.081	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Copper	5.1		0.62	0.17	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Iron	4700		12	6.4	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Lead	2.8		0.31	0.14	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Magnesium	30000		6.2	3.1	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Manganese	140	B	0.62	0.089	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Nickel	4.2		0.62	0.18	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Potassium	320		31	11	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Selenium	<0.62		0.62	0.36	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Silver	0.36		0.31	0.080	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Sodium	210	B	62	9.1	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Vanadium	11		0.31	0.073	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1
Zinc	16		1.2	0.54	mg/Kg	☼	05/21/20 18:19	05/22/20 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 23:03	1
Barium	<0.50		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 23:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 23:03	1
Boron	<0.10		0.10	0.050	mg/L		05/27/20 06:16	05/27/20 23:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-2

Lab Sample ID: 500-182337-2

Date Collected: 05/20/20 09:50

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 23:03	1
Calcium	6.4		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:03	1
Chromium	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:03	1
Cobalt	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:03	1
Iron	0.20	J	0.40	0.20	mg/L		05/28/20 16:38	05/29/20 09:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 23:03	1
Manganese	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:03	1
Nickel	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:03	1
Potassium	<2.5		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:03	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 23:03	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:03	1
Zinc	<0.50		0.50	0.020	mg/L		05/27/20 06:16	05/27/20 23:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 09:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0065	mg/Kg	☼	05/28/20 14:00	05/29/20 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	06/02/20 12:50	06/02/20 15:22	1
pH	7.2		0.2	0.2	SU			05/22/20 13:07	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-2 Dup

Lab Sample ID: 500-182337-3

Date Collected: 05/20/20 09:55

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
1,2-Dichloropropane	<0.0018 *		0.0018	0.00047	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Benzene	0.0035		0.0018	0.00046	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Bromomethane	<0.0045 *		0.0045	0.0017	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Ethylbenzene	0.0019		0.0018	0.00087	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Toluene	0.0057		0.0018	0.00046	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1
Xylenes, Total	0.0037		0.0036	0.00058	mg/Kg	☼	05/20/20 09:55	05/27/20 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/20/20 09:55	05/27/20 12:43	1
4-Bromofluorobenzene (Surr)	91		75 - 131	05/20/20 09:55	05/27/20 12:43	1
Dibromofluoromethane	97		75 - 126	05/20/20 09:55	05/27/20 12:43	1
Toluene-d8 (Surr)	87		75 - 124	05/20/20 09:55	05/27/20 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-2 Dup

Lab Sample ID: 500-182337-3

Date Collected: 05/20/20 09:55

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Anthracene	0.037	J	0.040	0.0068	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Fluoranthene	0.042		0.040	0.0075	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-2 Dup

Lab Sample ID: 500-182337-3

Date Collected: 05/20/20 09:55

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	06/01/20 16:31	06/02/20 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		31 - 143				06/01/20 16:31	06/02/20 16:03	1
2-Fluorobiphenyl	73		43 - 145				06/01/20 16:31	06/02/20 16:03	1
2-Fluorophenol	95		31 - 166				06/01/20 16:31	06/02/20 16:03	1
Nitrobenzene-d5	76		37 - 147				06/01/20 16:31	06/02/20 16:03	1
Phenol-d5	77		30 - 153				06/01/20 16:31	06/02/20 16:03	1
Terphenyl-d14	88		42 - 157				06/01/20 16:31	06/02/20 16:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.2	0.23	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Arsenic	2.0		0.58	0.20	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Barium	8.7		0.58	0.066	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Beryllium	0.18	J	0.23	0.054	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Boron	3.1		2.9	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Cadmium	0.10	J B	0.12	0.021	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Calcium	61000	B	120	20	mg/Kg	☼	05/21/20 18:19	05/22/20 19:27	10
Chromium	3.9	B	0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Cobalt	2.0		0.29	0.076	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Copper	4.9		0.58	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Iron	4900		12	6.0	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Lead	3.0		0.29	0.13	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Magnesium	32000		5.8	2.9	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Manganese	180	B	0.58	0.084	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Nickel	5.0		0.58	0.17	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Potassium	380		29	10	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Silver	0.42		0.29	0.075	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Sodium	330	B	58	8.6	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Vanadium	9.9		0.29	0.069	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1
Zinc	21		1.2	0.51	mg/Kg	☼	05/21/20 18:19	05/22/20 10:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 23:07	1
Barium	<0.50		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 23:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 23:07	1
Boron	0.063	J	0.10	0.050	mg/L		05/27/20 06:16	05/27/20 23:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B05-2 Dup

Lab Sample ID: 500-182337-3

Date Collected: 05/20/20 09:55

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 23:07	1
Calcium	5.8		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:07	1
Chromium	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:07	1
Cobalt	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:07	1
Iron	1.3		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 09:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 23:07	1
Manganese	0.015	J	0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:07	1
Nickel	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:07	1
Potassium	0.53	J	2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:07	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 23:07	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:07	1
Zinc	<0.50		0.50	0.020	mg/L		05/27/20 06:16	05/27/20 23:07	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		05/27/20 06:16	05/27/20 12:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 09:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0066	mg/Kg	☼	05/28/20 14:00	05/29/20 08:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.30	mg/Kg	☼	06/02/20 12:50	06/02/20 15:22	1
pH	7.4		0.2	0.2	SU			05/22/20 13:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B04-1

Lab Sample ID: 500-182337-4

Date Collected: 05/20/20 10:10

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Acetone	0.0096	J	0.017	0.0072	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Bromomethane	<0.0042	*	0.0042	0.0016	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	05/20/20 17:38	05/26/20 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	05/20/20 17:38	05/26/20 15:26	1
4-Bromofluorobenzene (Surr)	99		75 - 131	05/20/20 17:38	05/26/20 15:26	1
Dibromofluoromethane	93		75 - 126	05/20/20 17:38	05/26/20 15:26	1
Toluene-d8 (Surr)	90		75 - 124	05/20/20 17:38	05/26/20 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B04-1

Lab Sample ID: 500-182337-4

Date Collected: 05/20/20 10:10

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Fluoranthene	0.039		0.038	0.0071	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B04-1

Lab Sample ID: 500-182337-4

Date Collected: 05/20/20 10:10

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	06/01/20 16:31	06/02/20 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143				06/01/20 16:31	06/02/20 16:34	1
2-Fluorobiphenyl	79		43 - 145				06/01/20 16:31	06/02/20 16:34	1
2-Fluorophenol	104		31 - 166				06/01/20 16:31	06/02/20 16:34	1
Nitrobenzene-d5	81		37 - 147				06/01/20 16:31	06/02/20 16:34	1
Phenol-d5	91		30 - 153				06/01/20 16:31	06/02/20 16:34	1
Terphenyl-d14	89		42 - 157				06/01/20 16:31	06/02/20 16:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.22	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Arsenic	2.5		0.58	0.20	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Barium	18		0.58	0.066	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Beryllium	0.27		0.23	0.054	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Boron	7.4		2.9	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Cadmium	0.082	J B	0.12	0.021	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Calcium	50000	B	120	20	mg/Kg	☼	05/21/20 18:19	05/22/20 19:40	10
Chromium	7.8	B	0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Cobalt	2.9		0.29	0.076	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Copper	5.8		0.58	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Iron	6500		12	6.0	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Lead	3.9		0.29	0.13	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Magnesium	26000		5.8	2.9	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Manganese	190	B	0.58	0.084	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Nickel	7.3		0.58	0.17	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Potassium	610		29	10	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Silver	0.47		0.29	0.074	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Sodium	560	B	58	8.5	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Vanadium	15		0.29	0.068	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1
Zinc	18		1.2	0.51	mg/Kg	☼	05/21/20 18:19	05/22/20 10:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:16	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:16	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B04-1

Lab Sample ID: 500-182337-4

Date Collected: 05/20/20 10:10

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.046	J	0.050	0.010	mg/L		05/27/20 06:16	05/27/20 23:11	1
Barium	0.32	J	0.50	0.050	mg/L		05/27/20 06:16	05/27/20 23:11	1
Beryllium	0.0049		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 23:11	1
Boron	0.082	J	0.10	0.050	mg/L		05/27/20 06:16	05/27/20 23:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 23:11	1
Calcium	12		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:11	1
Chromium	0.12		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:11	1
Cobalt	0.019	J	0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:11	1
Iron	78		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 09:17	1
Lead	0.046		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 23:11	1
Manganese	0.87		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:11	1
Nickel	0.096		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:11	1
Potassium	8.7		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:11	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 23:11	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:11	1
Zinc	0.29	J	0.50	0.020	mg/L		05/27/20 06:16	05/27/20 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:38	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		05/28/20 10:05	05/29/20 09:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0060	J	0.018	0.0060	mg/Kg	☼	05/28/20 14:00	05/29/20 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.24	mg/Kg	☼	06/02/20 12:50	06/02/20 15:23	1
pH	9.0		0.2	0.2	SU			05/22/20 13:12	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B04-2

Lab Sample ID: 500-182337-5

Date Collected: 05/20/20 10:15

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 83.2

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	0.00065	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
2-Butanone (MEK)	0.0054		0.0049	0.0022	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Acetone	0.22	E	0.019	0.0085	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Bromomethane	<0.0049	*	0.0049	0.0018	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1
Xylenes, Total	0.00069	J	0.0039	0.00062	mg/Kg	☼	05/20/20 17:38	05/26/20 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	05/20/20 17:38	05/26/20 15:52	1
4-Bromofluorobenzene (Surr)	100		75 - 131	05/20/20 17:38	05/26/20 15:52	1
Dibromofluoromethane	92		75 - 126	05/20/20 17:38	05/26/20 15:52	1
Toluene-d8 (Surr)	90		75 - 124	05/20/20 17:38	05/26/20 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B04-2

Lab Sample ID: 500-182337-5

Date Collected: 05/20/20 10:15

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B04-2

Lab Sample ID: 500-182337-5

Date Collected: 05/20/20 10:15

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	06/01/20 16:31	06/02/20 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		31 - 143				06/01/20 16:31	06/02/20 17:04	1
2-Fluorobiphenyl	73		43 - 145				06/01/20 16:31	06/02/20 17:04	1
2-Fluorophenol	102		31 - 166				06/01/20 16:31	06/02/20 17:04	1
Nitrobenzene-d5	78		37 - 147				06/01/20 16:31	06/02/20 17:04	1
Phenol-d5	86		30 - 153				06/01/20 16:31	06/02/20 17:04	1
Terphenyl-d14	96		42 - 157				06/01/20 16:31	06/02/20 17:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.2	0.23	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Arsenic	1.6		0.59	0.20	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Barium	6.0		0.59	0.067	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Beryllium	0.14	J	0.24	0.055	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Boron	2.6	J	2.9	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Cadmium	0.084	J B	0.12	0.021	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Calcium	43000	B	120	20	mg/Kg	☼	05/21/20 18:19	05/22/20 19:45	10
Chromium	3.9	B	0.59	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Cobalt	1.7		0.29	0.077	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Copper	3.6		0.59	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Iron	3900		12	6.1	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Lead	2.2		0.29	0.14	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Magnesium	22000		5.9	2.9	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Manganese	140	B	0.59	0.085	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Nickel	4.0		0.59	0.17	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Potassium	280		29	10	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Silver	0.29		0.29	0.076	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Sodium	190	B	59	8.7	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Vanadium	7.3		0.29	0.070	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1
Zinc	12		1.2	0.52	mg/Kg	☼	05/21/20 18:19	05/22/20 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 23:15	1
Barium	<0.50		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 23:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 23:15	1
Boron	0.087	J	0.10	0.050	mg/L		05/27/20 06:16	05/27/20 23:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Client Sample ID: 2582V2-1-B04-2

Lab Sample ID: 500-182337-5

Date Collected: 05/20/20 10:15

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 23:15	1
Calcium	4.8		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:15	1
Chromium	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:15	1
Cobalt	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:15	1
Iron	0.98		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 09:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 23:15	1
Manganese	0.019	J	0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:15	1
Nickel	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:15	1
Potassium	0.57	J	2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:15	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 23:15	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:15	1
Zinc	<0.50		0.50	0.020	mg/L		05/27/20 06:16	05/27/20 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0060	mg/Kg	☼	05/28/20 14:00	05/29/20 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.24	mg/Kg	☼	06/02/20 12:50	06/02/20 15:23	1
pH	8.6		0.2	0.2	SU			05/22/20 13:14	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
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
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
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.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182337-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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 335 (IL 176) Office Phone Number, if available: _____

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

1719-1821 IL 176, 1812-1813 Blossom Street and 3609 Burton Trail

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27682 Longitude: -88.23023
(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.): 55

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 2582V2-2-B01 WAS SAMPLED ADJACENT TO SITE 2582V2-2. SEE TABLE 3b 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: 500-182188-1.

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:

Aug 3, 2020
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

ISGS Site 2582V2-2

Residences

Sample ID	2582V2-2-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-6					
Sample Date	5/18/2020	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					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182188-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/2/2020 1:07:19 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182188-1

Client Sample ID: 2582V2-2-B01

Lab Sample ID: 500-182188-1

Date Collected: 05/18/20 11:00

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Bromomethane	<0.0041	*	0.0041	0.0015	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	05/19/20 18:19	05/21/20 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	05/19/20 18:19	05/21/20 12:08	1
4-Bromofluorobenzene (Surr)	100		75 - 131	05/19/20 18:19	05/21/20 12:08	1
Dibromofluoromethane	92		75 - 126	05/19/20 18:19	05/21/20 12:08	1
Toluene-d8 (Surr)	88		75 - 124	05/19/20 18:19	05/21/20 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182188-1

Client Sample ID: 2582V2-2-B01

Lab Sample ID: 500-182188-1

Date Collected: 05/18/20 11:00

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Benzo[a]anthracene	0.014	J	0.040	0.0054	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Benzo[a]pyrene	0.027	J	0.040	0.0078	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Benzo[b]fluoranthene	0.035	J	0.040	0.0087	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Benzo[g,h,i]perylene	0.016	J	0.040	0.013	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Benzo[k]fluoranthene	0.012	J	0.040	0.012	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Chrysene	0.021	J	0.040	0.011	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Dibenz(a,h)anthracene	0.0099	J	0.040	0.0078	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Fluoranthene	0.027	J	0.040	0.0075	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182188-1

Client Sample ID: 2582V2-2-B01

Lab Sample ID: 500-182188-1

Date Collected: 05/18/20 11:00

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.020	J	0.040	0.010	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Phenanthrene	0.012	J	0.040	0.0056	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Pyrene	0.030	J	0.040	0.0080	mg/Kg	☼	05/22/20 20:48	05/26/20 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	49		31 - 143				05/22/20 20:48	05/26/20 13:37	1
2-Fluorobiphenyl	66		43 - 145				05/22/20 20:48	05/26/20 13:37	1
2-Fluorophenol	71		31 - 166				05/22/20 20:48	05/26/20 13:37	1
Nitrobenzene-d5	58		37 - 147				05/22/20 20:48	05/26/20 13:37	1
Phenol-d5	67		30 - 153				05/22/20 20:48	05/26/20 13:37	1
Terphenyl-d14	73		42 - 157				05/22/20 20:48	05/26/20 13:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.24	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Arsenic	6.8		0.61	0.21	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Barium	79		0.61	0.069	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Beryllium	0.72		0.24	0.057	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Boron	4.6		3.0	0.28	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Cadmium	0.090	J B	0.12	0.022	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Calcium	4000	B	12	2.1	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Chromium	20		0.61	0.30	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Cobalt	11		0.30	0.079	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Copper	18		0.61	0.17	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Iron	18000		12	6.3	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Lead	15		0.30	0.14	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Magnesium	3900		6.1	3.0	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Manganese	490		0.61	0.088	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Nickel	23		0.61	0.18	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Potassium	1300		30	11	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Silver	1.2		0.30	0.078	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Sodium	1600	B	61	9.0	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Vanadium	35		0.30	0.072	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1
Zinc	54		1.2	0.53	mg/Kg	☼	05/19/20 17:35	05/20/20 10:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 19:07	1
Chromium	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:07	1
Iron	<0.40		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 19:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182188-1

Client Sample ID: 2582V2-2-B01

Lab Sample ID: 500-182188-1

Date Collected: 05/18/20 11:00

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 19:07	1
Manganese	0.39		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:07	1
Nickel	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.077		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 20:49	1
Barium	0.94		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 20:49	1
Beryllium	0.0098		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 20:49	1
Boron	0.091	J	0.10	0.050	mg/L		05/27/20 06:16	05/27/20 20:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 20:49	1
Calcium	27		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 20:49	1
Chromium	0.24		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 20:49	1
Cobalt	0.042		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 20:49	1
Iron	220		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 20:49	1
Lead	0.15		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 20:49	1
Manganese	2.0		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 20:49	1
Nickel	0.19		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 20:49	1
Potassium	17		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 20:49	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 20:49	1
Zinc	0.63		0.50	0.020	mg/L		05/27/20 06:16	05/27/20 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/29/20 10:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/29/20 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0072		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:58	1
Thallium	0.0059		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		05/27/20 09:30	05/28/20 09:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0065	mg/Kg	☼	05/20/20 13:30	05/21/20 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.41		0.41	0.21	mg/Kg	☼	05/29/20 10:10	05/29/20 14:04	1
pH	8.0		0.2	0.2	SU			05/20/20 16:50	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182188-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182188-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

1

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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 335 (IL 176) Office Phone Number, if available: _____

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

1713 IL 176

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27736 Longitude: - 88.22972
(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.): 119

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 2582V2-3-B02 WAS SAMPLED ADJACENT TO SITE 2582V2-3. SEE TABLE 3c AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-182189-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-3

Nunda Township Fire Department

Sample ID	2582V2-3-B02	Maximum Allowable Concentration					
Sample Depth (ft)	0-6	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	5/18/2020						
PID	0						
Sample pH	7.8						
Matrix	Soil						
Semivolatile Organic Compounds (mg/kg)							
Benzo(a)pyrene	0.11	1,2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182189-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/2/2020 1:13:44 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
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The
Expert**

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182189-1

Client Sample ID: 2582V2-3-B02

Lab Sample ID: 500-182189-2

Date Collected: 05/18/20 11:55

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00084	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Acetone	0.028		0.019	0.0085	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Chloroform	<0.0019		0.0019	0.00068	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	05/19/20 18:19	05/20/20 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	05/19/20 18:19	05/20/20 14:39	1
4-Bromofluorobenzene (Surr)	96		75 - 131	05/19/20 18:19	05/20/20 14:39	1
Dibromofluoromethane	96		75 - 126	05/19/20 18:19	05/20/20 14:39	1
Toluene-d8 (Surr)	100		75 - 124	05/19/20 18:19	05/20/20 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.23		0.23	0.050	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
1,2-Dichlorobenzene	<0.23		0.23	0.055	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
1,3-Dichlorobenzene	<0.23		0.23	0.052	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
1,4-Dichlorobenzene	<0.23		0.23	0.059	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2,2'-oxybis[1-chloropropane]	<0.23		0.23	0.053	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182189-1

Client Sample ID: 2582V2-3-B02

Lab Sample ID: 500-182189-2

Date Collected: 05/18/20 11:55

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.46		0.46	0.11	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2,4,6-Trichlorophenol	<0.46		0.46	0.16	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2,4-Dichlorophenol	<0.46		0.46	0.11	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2,4-Dimethylphenol	<0.46		0.46	0.17	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2,4-Dinitrophenol	<0.93		0.93	0.81	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2,4-Dinitrotoluene	<0.23		0.23	0.073	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2,6-Dinitrotoluene	<0.23		0.23	0.091	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2-Chloronaphthalene	<0.23		0.23	0.051	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2-Chlorophenol	<0.23		0.23	0.079	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2-Methylnaphthalene	<0.093		0.093	0.0085	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2-Methylphenol	<0.23		0.23	0.074	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2-Nitroaniline	<0.23		0.23	0.062	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
2-Nitrophenol	<0.46		0.46	0.11	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
3 & 4 Methylphenol	<0.23		0.23	0.077	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
3,3'-Dichlorobenzidine	<0.23		0.23	0.065	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
3-Nitroaniline	<0.46		0.46	0.14	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
4,6-Dinitro-2-methylphenol	<0.93		0.93	0.37	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
4-Bromophenyl phenyl ether	<0.23		0.23	0.061	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
4-Chloro-3-methylphenol	<0.46		0.46	0.16	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
4-Chloroaniline	<0.93		0.93	0.22	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
4-Chlorophenyl phenyl ether	<0.23		0.23	0.054	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
4-Nitroaniline	<0.46		0.46	0.19	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
4-Nitrophenol	<0.93		0.93	0.44	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Acenaphthene	<0.046		0.046	0.0083	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Acenaphthylene	<0.046		0.046	0.0061	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Anthracene	0.0093	J	0.046	0.0077	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Benzo[a]anthracene	0.071		0.046	0.0062	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Benzo[a]pyrene	0.11		0.046	0.0089	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Benzo[b]fluoranthene	0.15		0.046	0.010	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Benzo[g,h,i]perylene	0.056		0.046	0.015	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Benzo[k]fluoranthene	0.052		0.046	0.014	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Bis(2-chloroethoxy)methane	<0.23		0.23	0.047	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Bis(2-chloroethyl)ether	<0.23		0.23	0.069	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Bis(2-ethylhexyl) phthalate	<0.23		0.23	0.084	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Butyl benzyl phthalate	<0.23		0.23	0.088	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Carbazole	<0.23		0.23	0.12	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Chrysene	0.11		0.046	0.013	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Dibenz(a,h)anthracene	0.013	J	0.046	0.0089	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Dibenzofuran	<0.23		0.23	0.054	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Diethyl phthalate	<0.23		0.23	0.078	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Dimethyl phthalate	<0.23		0.23	0.060	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Di-n-butyl phthalate	<0.23		0.23	0.070	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Di-n-octyl phthalate	<0.23		0.23	0.075	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Fluoranthene	0.19		0.046	0.0086	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Fluorene	<0.046		0.046	0.0065	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Hexachlorobenzene	<0.093		0.093	0.011	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Hexachlorobutadiene	<0.23		0.23	0.072	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Hexachlorocyclopentadiene	<0.93		0.93	0.27	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Hexachloroethane	<0.23		0.23	0.070	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182189-1

Client Sample ID: 2582V2-3-B02

Lab Sample ID: 500-182189-2

Date Collected: 05/18/20 11:55

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 72.0

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	0.054		0.046	0.012	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Isophorone	<0.23		0.23	0.052	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Naphthalene	<0.046		0.046	0.0071	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Nitrobenzene	<0.046		0.046	0.012	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
N-Nitrosodi-n-propylamine	<0.093		0.093	0.056	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
N-Nitrosodiphenylamine	<0.23		0.23	0.054	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Pentachlorophenol	<0.93		0.93	0.74	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Phenanthrene	0.073		0.046	0.0064	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Phenol	<0.23		0.23	0.10	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Pyrene	0.15		0.046	0.0092	mg/Kg	☼	05/27/20 16:04	05/28/20 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		31 - 143				05/27/20 16:04	05/28/20 14:57	1
2-Fluorobiphenyl	92		43 - 145				05/27/20 16:04	05/28/20 14:57	1
2-Fluorophenol	100		31 - 166				05/27/20 16:04	05/28/20 14:57	1
Nitrobenzene-d5	76		37 - 147				05/27/20 16:04	05/28/20 14:57	1
Phenol-d5	105		30 - 153				05/27/20 16:04	05/28/20 14:57	1
Terphenyl-d14	101		42 - 157				05/27/20 16:04	05/28/20 14:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.4	0.27	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Arsenic	3.6		0.69	0.24	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Barium	73		0.69	0.079	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Beryllium	0.77		0.28	0.065	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Boron	7.4		3.5	0.32	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Cadmium	0.19	B	0.14	0.025	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Calcium	6700	B	14	2.3	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Chromium	22		0.69	0.34	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Cobalt	8.6		0.35	0.091	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Copper	18		0.69	0.19	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Iron	16000		14	7.2	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Lead	19		0.35	0.16	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Magnesium	5500		6.9	3.4	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Manganese	200		0.69	0.10	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Nickel	21		0.69	0.20	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Potassium	1800		35	12	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Selenium	<0.69		0.69	0.41	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Silver	1.4		0.35	0.089	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Sodium	430	B	69	10	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Thallium	<0.69		0.69	0.35	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Vanadium	37		0.35	0.082	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1
Zinc	68		1.4	0.61	mg/Kg	☼	05/19/20 17:35	05/20/20 10:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 19:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 19:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182189-1

Client Sample ID: 2582V2-3-B02

Lab Sample ID: 500-182189-2

Date Collected: 05/18/20 11:55

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.016	J	0.050	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Barium	0.19	J	0.50	0.050	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Boron	0.068	J	0.10	0.050	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Calcium	14		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Chromium	0.056		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Cobalt	<0.025		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Iron	38		0.40	0.20	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Lead	0.036		0.0075	0.0075	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Manganese	0.15		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Nickel	0.033		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Potassium	7.6		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Selenium	<0.050		0.050	0.020	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Silver	<0.025		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:05	1
Zinc	0.11	J	0.50	0.020	mg/L	-	05/27/20 06:16	05/27/20 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	05/27/20 06:16	05/27/20 13:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	05/27/20 06:16	05/27/20 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	05/27/20 09:30	05/28/20 09:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.022	0.0074	mg/Kg	⊛	05/20/20 13:30	05/21/20 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.67		0.67	0.33	mg/Kg	⊛	05/29/20 10:10	05/29/20 14:04	1
pH	7.8		0.2	0.2	SU			05/19/20 15:16	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182189-1

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
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.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182189-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

1

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14

15

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com										Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com					Project Name: <u>AE7-035A</u> Project No.: <u>PTB/WO: 184-006/035A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>R. Senow</u>					COC No.: _____ of _____ Lab Job No.: <u>500-182189</u> Sample Temp: <u>2.6/1.8</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.					ANALYSES										Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other									
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments							
1	2582U2-3-B01	5/18	1120	S	X	X					X	X	X	X	X									
2	2582U2-3-B02	5/18	1155	S	X	X					X	X	X	X	X									
Relinquished by: <u>Matt Law</u>					Date/Time: <u>5/18 1735</u>					Received by: <u>R. Senow</u>					Date/Time: <u>0518 17:35</u>									
Relinquished by:					Date/Time:					Received by:					Date/Time:									
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: FAP 335 (IL 176) Office Phone Number, if available: _____

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

1700 block of IL 176 (northwest corner of IL 176 and Blue Island Avenue)

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27731 Longitude: -88.23011
(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.): 35

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS 2582V2-4-B01 AND 2582V-4-B02 WERE SAMPLED ADJACENT TO SITE 2582V2-4. SEE TABLE 3d 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: 500-182266-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-4

Vacant Land

Sample ID	2582V2-4-B01	2582V2-4-B02	Maximum Allowable Concentration					
Sample Depth (ft)	0-3	0-3	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	5/19/2020	5/19/2020						
PID	0	0						
Sample pH	7.8	7.7						
Matrix	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)								
Benzo(a)pyrene	0.21	1.2	0.056	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182266-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 10:30:24 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182266-1

Client Sample ID: 2582V2-4-B01

Lab Sample ID: 500-182266-1

Date Collected: 05/19/20 12:15

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Acetone	0.015	J	0.018	0.0078	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Chloroethane	<0.0045	*	0.0045	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/19/20 18:19	05/22/20 03:47	1
4-Bromofluorobenzene (Surr)	94		75 - 131	05/19/20 18:19	05/22/20 03:47	1
Dibromofluoromethane	97		75 - 126	05/19/20 18:19	05/22/20 03:47	1
Toluene-d8 (Surr)	98		75 - 124	05/19/20 18:19	05/22/20 03:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Client Sample ID: 2582V2-4-B01

Lab Sample ID: 500-182266-1

Date Collected: 05/19/20 12:15

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Acenaphthylene	0.0055	J	0.040	0.0053	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Anthracene	0.019	J	0.040	0.0067	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Benzo[a]anthracene	0.15		0.040	0.0054	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Benzo[a]pyrene	0.21		0.040	0.0078	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Benzo[b]fluoranthene	0.27		0.040	0.0087	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Benzo[g,h,i]perylene	0.11		0.040	0.013	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Benzo[k]fluoranthene	0.10		0.040	0.012	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Chrysene	0.20		0.040	0.011	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Dibenz(a,h)anthracene	0.027	J	0.040	0.0078	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Di-n-octyl phthalate	<0.20	*	0.20	0.066	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Fluoranthene	0.34		0.040	0.0075	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Client Sample ID: 2582V2-4-B01

Lab Sample ID: 500-182266-1

Date Collected: 05/19/20 12:15

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.4

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	0.099		0.040	0.010	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Phenanthrene	0.11		0.040	0.0056	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Pyrene	0.24		0.040	0.0080	mg/Kg	☼	05/29/20 08:03	05/29/20 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		31 - 143				05/29/20 08:03	05/29/20 20:47	1
2-Fluorobiphenyl	94		43 - 145				05/29/20 08:03	05/29/20 20:47	1
2-Fluorophenol	99		31 - 166				05/29/20 08:03	05/29/20 20:47	1
Nitrobenzene-d5	86		37 - 147				05/29/20 08:03	05/29/20 20:47	1
Phenol-d5	81		30 - 153				05/29/20 08:03	05/29/20 20:47	1
Terphenyl-d14	83		42 - 157				05/29/20 08:03	05/29/20 20:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J B	1.1	0.22	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Arsenic	5.2		0.57	0.20	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Barium	100		0.57	0.065	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Beryllium	0.53		0.23	0.053	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Boron	5.2		2.9	0.27	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Cadmium	0.69	B	0.11	0.021	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Calcium	21000	B	11	1.9	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Chromium	15		0.57	0.28	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Cobalt	7.7		0.57	0.15	mg/Kg	☼	05/21/20 07:14	05/22/20 09:20	2
Copper	19		0.57	0.16	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Iron	13000		11	5.9	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Lead	200		0.29	0.13	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Magnesium	13000	B	5.7	2.8	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Manganese	460		0.57	0.083	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Nickel	17		0.57	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Potassium	1100		29	10	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Silver	1.0		0.29	0.074	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Sodium	180	B	57	8.5	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Vanadium	24		0.29	0.067	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1
Zinc	100		1.1	0.50	mg/Kg	☼	05/21/20 07:14	05/21/20 20:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:17	1
Manganese	0.086		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Client Sample ID: 2582V2-4-B01

Lab Sample ID: 500-182266-1

Date Collected: 05/19/20 12:15

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.4

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		05/28/20 05:59	05/28/20 21:08	1
Barium	0.24	J	0.50	0.050	mg/L		05/28/20 05:59	05/28/20 21:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 21:08	1
Boron	0.053	J	0.10	0.050	mg/L		05/28/20 05:59	05/28/20 21:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 21:08	1
Calcium	13		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 21:08	1
Chromium	0.028		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:08	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:08	1
Iron	21		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 21:08	1
Lead	0.14		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 21:08	1
Manganese	0.19		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:08	1
Nickel	0.019	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:08	1
Potassium	3.5		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 21:08	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 21:08	1
Silver	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:08	1
Zinc	0.13	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 18:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 10:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.020	0.0066	mg/Kg	☼	05/27/20 13:30	05/28/20 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	☼	06/01/20 09:30	06/01/20 15:47	1
pH	7.8		0.2	0.2	SU			05/20/20 18:12	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Client Sample ID: 2582V2-4-B02

Lab Sample ID: 500-182266-2

Date Collected: 05/19/20 12:05

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Bromomethane	<0.0052 *		0.0052	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Chloromethane	<0.0052 *		0.0052	0.0021	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	05/19/20 18:19	05/22/20 16:52	1
4-Bromofluorobenzene (Surr)	98		75 - 131	05/19/20 18:19	05/22/20 16:52	1
Dibromofluoromethane	97		75 - 126	05/19/20 18:19	05/22/20 16:52	1
Toluene-d8 (Surr)	92		75 - 124	05/19/20 18:19	05/22/20 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Client Sample ID: 2582V2-4-B02

Lab Sample ID: 500-182266-2

Date Collected: 05/19/20 12:05

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Benzo[a]anthracene	0.035	J	0.041	0.0055	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Benzo[a]pyrene	0.056		0.041	0.0079	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Benzo[b]fluoranthene	0.074		0.041	0.0088	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Benzo[g,h,i]perylene	0.025	J	0.041	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Benzo[k]fluoranthene	0.027	J	0.041	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Chrysene	0.048		0.041	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Dibenz(a,h)anthracene	0.012	J	0.041	0.0079	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Fluoranthene	0.063		0.041	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Client Sample ID: 2582V2-4-B02

Lab Sample ID: 500-182266-2

Date Collected: 05/19/20 12:05

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.0

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	0.028	J	0.041	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
N-Nitrosodiphenylamine	<0.21	*	0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Phenanthrene	0.021	J	0.041	0.0057	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Pyrene	0.056		0.041	0.0081	mg/Kg	☼	05/26/20 18:39	05/27/20 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		31 - 143				05/26/20 18:39	05/27/20 18:48	1
2-Fluorobiphenyl	74		43 - 145				05/26/20 18:39	05/27/20 18:48	1
2-Fluorophenol	75		31 - 166				05/26/20 18:39	05/27/20 18:48	1
Nitrobenzene-d5	61		37 - 147				05/26/20 18:39	05/27/20 18:48	1
Phenol-d5	77		30 - 153				05/26/20 18:39	05/27/20 18:48	1
Terphenyl-d14	93		42 - 157				05/26/20 18:39	05/27/20 18:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J B	1.2	0.23	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Arsenic	5.7		0.60	0.20	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Barium	79		0.60	0.068	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Beryllium	0.53		0.24	0.056	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Boron	6.8		3.0	0.28	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Calcium	29000	B	12	2.0	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Chromium	14		0.60	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Cobalt	7.1		0.30	0.078	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Copper	17		0.60	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Iron	13000		12	6.2	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Lead	78		0.30	0.14	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Magnesium	18000	B	6.0	3.0	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Manganese	510		0.60	0.086	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Nickel	15		0.60	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Potassium	1100		30	11	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Silver	0.86		0.30	0.077	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Sodium	340	B	60	8.8	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Vanadium	26		0.30	0.070	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1
Zinc	64		1.2	0.52	mg/Kg	☼	05/21/20 07:14	05/21/20 20:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:20	1
Manganese	0.47		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Client Sample ID: 2582V2-4-B02

Lab Sample ID: 500-182266-2

Date Collected: 05/19/20 12:05

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.050	0.010	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Barium	0.42	J	0.50	0.050	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Boron	0.072	J	0.10	0.050	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Calcium	19		2.5	0.50	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Chromium	0.094		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Cobalt	<0.025		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Iron	64		0.40	0.20	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Lead	0.087		0.0075	0.0075	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Manganese	0.34		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Nickel	0.053		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Potassium	9.3		2.5	0.50	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Selenium	<0.050		0.050	0.020	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Silver	<0.025		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 21:12	1
Zinc	0.23	J	0.50	0.020	mg/L	-	05/28/20 05:59	05/28/20 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L	-	05/28/20 05:59	05/29/20 18:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	05/28/20 05:59	05/29/20 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	05/28/20 10:05	05/29/20 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.021	0.0069	mg/Kg	☼	05/27/20 13:30	05/28/20 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.30	mg/Kg	☼	06/01/20 09:30	06/01/20 15:48	1
pH	7.7		0.2	0.2	SU			05/20/20 18:14	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
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.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182266-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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 335 (IL 176) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
1703 IL 176

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27761 Longitude: - 88.22956
(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: 1110155172 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 94

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 2582V2-5-B01 WAS SAMPLED ADJACENT TO SITE 2582V2-5. SEE TABLE 3e 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: 500-182190-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-5

Dunne Deals

Sample ID	2582V2-5-B01-1	2582V2-5-B01-2	Maximum Allowable Concentration				
Sample Depth (ft)	0-4	4-8					
Sample Date	5/18/2020	5/18/2020					
PID	0	0	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 pH	7	7.2					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182190-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/2/2020 3:02:18 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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TotalAccess

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182190-1

Client Sample ID: 2582V2-5-B01-1

Lab Sample ID: 500-182190-1

Date Collected: 05/18/20 13:15

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
1,1-Dichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00077	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
2-Butanone (MEK)	0.0069		0.0055	0.0024	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Acetone	0.050		0.022	0.0095	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Methylene Chloride	<0.0055		0.0055	0.0021	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	☼	05/19/20 18:19	05/20/20 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/19/20 18:19	05/20/20 15:05	1
4-Bromofluorobenzene (Surr)	95		75 - 131	05/19/20 18:19	05/20/20 15:05	1
Dibromofluoromethane	98		75 - 126	05/19/20 18:19	05/20/20 15:05	1
Toluene-d8 (Surr)	100		75 - 124	05/19/20 18:19	05/20/20 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Client Sample ID: 2582V2-5-B01-1

Lab Sample ID: 500-182190-1

Date Collected: 05/18/20 13:15

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2-Methylnaphthalene	<0.084		0.084	0.0076	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Client Sample ID: 2582V2-5-B01-1

Lab Sample ID: 500-182190-1

Date Collected: 05/18/20 13:15

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	05/26/20 19:48	05/27/20 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143	05/26/20 19:48	05/27/20 16:15	1
2-Fluorobiphenyl	93		43 - 145	05/26/20 19:48	05/27/20 16:15	1
2-Fluorophenol	102		31 - 166	05/26/20 19:48	05/27/20 16:15	1
Nitrobenzene-d5	81		37 - 147	05/26/20 19:48	05/27/20 16:15	1
Phenol-d5	109		30 - 153	05/26/20 19:48	05/27/20 16:15	1
Terphenyl-d14	99		42 - 157	05/26/20 19:48	05/27/20 16:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.3	0.25	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Arsenic	7.1		0.64	0.22	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Barium	93		0.64	0.073	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Beryllium	0.65		0.25	0.059	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Boron	4.9		3.2	0.30	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Cadmium	0.12	J B	0.13	0.023	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Calcium	4700	B	13	2.2	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Chromium	16		0.64	0.32	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Cobalt	7.8		0.32	0.083	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Copper	9.5		0.64	0.18	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Iron	19000		13	6.6	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Lead	9.1		0.32	0.15	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Magnesium	2800		6.4	3.2	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Manganese	360		0.64	0.092	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Nickel	16		0.64	0.19	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Potassium	790		32	11	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Selenium	<0.64		0.64	0.37	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Silver	1.0		0.32	0.082	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Sodium	120	B	64	9.4	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Vanadium	37		0.32	0.075	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1
Zinc	49		1.3	0.56	mg/Kg	☼	05/19/20 17:35	05/20/20 09:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 19:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 19:16	1
Manganese	6.8		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Client Sample ID: 2582V2-5-B01-1

Lab Sample ID: 500-182190-1

Date Collected: 05/18/20 13:15

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.035	J	0.050	0.010	mg/L		05/27/20 06:16	05/27/20 21:09	1
Barium	0.25	J	0.50	0.050	mg/L		05/27/20 06:16	05/27/20 21:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 21:09	1
Boron	0.062	J	0.10	0.050	mg/L		05/27/20 06:16	05/27/20 21:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 21:09	1
Calcium	13		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 21:09	1
Chromium	0.055		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:09	1
Cobalt	0.014	J	0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:09	1
Iron	77		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 21:09	1
Lead	0.030		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 21:09	1
Manganese	0.43		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:09	1
Nickel	0.035		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:09	1
Potassium	3.9		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 21:09	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 21:09	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:09	1
Zinc	0.11	J	0.50	0.020	mg/L		05/27/20 06:16	05/27/20 21:09	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		05/27/20 06:16	05/27/20 13:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/27/20 09:30	05/28/20 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	B	0.021	0.0070	mg/Kg	☼	05/26/20 13:05	05/27/20 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	05/29/20 10:10	05/29/20 14:06	1
pH	7.0		0.2	0.2	SU			05/20/20 16:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Client Sample ID: 2582V2-5-B01-2

Lab Sample ID: 500-182190-2

Date Collected: 05/18/20 13:20

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
1,1-Dichloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00076	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
2-Butanone (MEK)	0.0083		0.0054	0.0024	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Acetone	0.038		0.022	0.0094	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00065	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Styrene	<0.0022		0.0022	0.00065	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Trichloroethene	<0.0022		0.0022	0.00073	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Vinyl chloride	<0.0022		0.0022	0.00096	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	05/19/20 18:19	05/20/20 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	05/19/20 18:19	05/20/20 15:30	1
4-Bromofluorobenzene (Surr)	98		75 - 131	05/19/20 18:19	05/20/20 15:30	1
Dibromofluoromethane	95		75 - 126	05/19/20 18:19	05/20/20 15:30	1
Toluene-d8 (Surr)	100		75 - 124	05/19/20 18:19	05/20/20 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Client Sample ID: 2582V2-5-B01-2

Lab Sample ID: 500-182190-2

Date Collected: 05/18/20 13:20

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2,4-Dinitrotoluene	<0.22		0.22	0.069	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2-Chlorophenol	<0.22		0.22	0.074	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Acenaphthene	<0.043		0.043	0.0078	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Benzo[a]anthracene	0.010	J	0.043	0.0058	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Benzo[a]pyrene	0.019	J	0.043	0.0084	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Benzo[b]fluoranthene	0.024	J	0.043	0.0093	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Chrysene	0.014	J	0.043	0.012	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Fluoranthene	0.023	J	0.043	0.0080	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Fluorene	<0.043		0.043	0.0061	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Hexachloroethane	<0.22		0.22	0.066	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Client Sample ID: 2582V2-5-B01-2

Lab Sample ID: 500-182190-2

Date Collected: 05/18/20 13:20

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 75.0

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	<0.043		0.043	0.011	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.053	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Phenanthrene	0.0072	J	0.043	0.0060	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Phenol	<0.22		0.22	0.096	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Pyrene	0.020	J	0.043	0.0086	mg/Kg	☼	05/26/20 19:48	05/27/20 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		31 - 143				05/26/20 19:48	05/27/20 16:39	1
2-Fluorobiphenyl	95		43 - 145				05/26/20 19:48	05/27/20 16:39	1
2-Fluorophenol	102		31 - 166				05/26/20 19:48	05/27/20 16:39	1
Nitrobenzene-d5	81		37 - 147				05/26/20 19:48	05/27/20 16:39	1
Phenol-d5	106		30 - 153				05/26/20 19:48	05/27/20 16:39	1
Terphenyl-d14	98		42 - 157				05/26/20 19:48	05/27/20 16:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.24	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Arsenic	9.8		0.61	0.21	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Barium	64		0.61	0.070	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Beryllium	0.65		0.25	0.057	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Boron	4.2		3.1	0.29	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Cadmium	0.12	B	0.12	0.022	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Calcium	4700	B	12	2.1	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Chromium	16		0.61	0.30	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Cobalt	8.2		0.31	0.080	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Copper	11		0.61	0.17	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Iron	21000		12	6.4	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Lead	11		0.31	0.14	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Magnesium	3700		6.1	3.0	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Manganese	230		0.61	0.089	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Nickel	19		0.61	0.18	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Potassium	890		31	11	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Silver	1.1		0.31	0.079	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Sodium	110	B	61	9.1	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Thallium	<0.61		0.61	0.31	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Vanadium	36		0.31	0.072	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1
Zinc	49		1.2	0.54	mg/Kg	☼	05/19/20 17:35	05/20/20 09:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 19:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 19:19	1
Manganese	4.7		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Client Sample ID: 2582V2-5-B01-2

Lab Sample ID: 500-182190-2

Date Collected: 05/18/20 13:20

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 75.0

Method: 6010B - 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	-	05/27/20 06:16	05/27/20 21:13	1
Barium	0.23	J	0.50	0.050	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Boron	0.054	J	0.10	0.050	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Calcium	14		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Chromium	0.058		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Cobalt	0.016	J	0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Iron	75		0.40	0.20	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Lead	0.034		0.0075	0.0075	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Manganese	0.28		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Nickel	0.043		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Potassium	5.5		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Selenium	<0.050		0.050	0.020	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Silver	<0.025		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:13	1
Zinc	0.11	J	0.50	0.020	mg/L	-	05/27/20 06:16	05/27/20 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	05/27/20 06:16	05/27/20 13:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	05/27/20 06:16	05/27/20 13:02	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	-	05/27/20 09:30	05/28/20 09:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	B	0.020	0.0067	mg/Kg	☼	05/26/20 13:05	05/27/20 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.66		0.66	0.33	mg/Kg	☼	05/29/20 10:10	05/29/20 14:06	1
pH	7.2		0.2	0.2	SU			05/20/20 16:55	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182190-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 500-182190 COC Contact: Colleen Grey email: cgrey@andrews-eng.com					Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: <u>richard.wright@testamericainc.com</u>					Project Name: <u>AE7-035A</u> Project No.: <u>PTB/WO: 184-006/035A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>R. Senow</u>					COC No.: _____ of _____ Lab Job No.: <u>500-182190</u> Sample Temp.: <u>26.18</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.					ANALYSES										Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other				
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments		
1	2582V2-5-B01-1	5/18	1315	S	X	X					X	X	X	X	X				
2	2582V2-5-B01-2		1320																
3	2582V2-5-B02-1		1340																
4	2582V2-5-B02-2		1345																
5	2582V2-5-B03		1400																
6	2582V2-5-B03 _{DUP}		1405																
Relinquished by: <u>[Signature]</u>					Date/Time: <u>5/18 1735</u>					Received by: <u>[Signature] TAT</u>					Date/Time: <u>05/18 17:35</u>				
Relinquished by:					Date/Time:					Received by:					Date/Time:				
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: FAP 335 (IL 176) Office Phone Number, if available: _____

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

1600 block of Nish Road (southeast quadrant of IL 176 and Nish Road)

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27788 Longitude: -88.22852
(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.): 4

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 2582V2-7-B01 WAS SAMPLED ADJACENT TO SITE 2582V2-7. SEE TABLE 3f 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: 500-182191-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-7

Vacant Land

Sample ID	2582V2-7-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-3					
Sample Date	5/18/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	7.7					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182191-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/2/2020 3:04:53 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182191-1

Client Sample ID: 2582V2-7-B01

Lab Sample ID: 500-182191-1

Date Collected: 05/18/20 14:15

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
1,1,2,2-Tetrachloroethane	<0.0017	*3	0.0017	0.00053	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
2-Butanone (MEK)	0.010		0.0042	0.0018	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Acetone	0.045		0.017	0.0073	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	05/19/20 18:19	05/20/20 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/19/20 18:19	05/20/20 17:40	1
4-Bromofluorobenzene (Surr)	101	*3	75 - 131	05/19/20 18:19	05/20/20 17:40	1
Dibromofluoromethane	95		75 - 126	05/19/20 18:19	05/20/20 17:40	1
Toluene-d8 (Surr)	103		75 - 124	05/19/20 18:19	05/20/20 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182191-1

Client Sample ID: 2582V2-7-B01

Lab Sample ID: 500-182191-1

Date Collected: 05/18/20 14:15

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Benzo[b]fluoranthene	0.012	J	0.041	0.0088	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Chrysene	0.011	J	0.041	0.011	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Fluoranthene	0.010	J	0.041	0.0076	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182191-1

Client Sample ID: 2582V2-7-B01

Lab Sample ID: 500-182191-1

Date Collected: 05/18/20 14:15

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Phenanthrene	0.013	J	0.041	0.0057	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Pyrene	0.012	J	0.041	0.0081	mg/Kg	☼	05/27/20 16:04	05/28/20 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		31 - 143				05/27/20 16:04	05/28/20 15:22	1
2-Fluorobiphenyl	96		43 - 145				05/27/20 16:04	05/28/20 15:22	1
2-Fluorophenol	102		31 - 166				05/27/20 16:04	05/28/20 15:22	1
Nitrobenzene-d5	81		37 - 147				05/27/20 16:04	05/28/20 15:22	1
Phenol-d5	107		30 - 153				05/27/20 16:04	05/28/20 15:22	1
Terphenyl-d14	102		42 - 157				05/27/20 16:04	05/28/20 15:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.3	0.24	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Arsenic	5.7		0.63	0.22	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Barium	85		0.63	0.072	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Beryllium	0.60		0.25	0.059	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Boron	5.9		3.1	0.29	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Cadmium	0.16	B	0.13	0.023	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Calcium	12000	B	13	2.1	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Chromium	16		0.63	0.31	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Cobalt	5.9		0.31	0.082	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Copper	10		0.63	0.18	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Iron	15000		13	6.5	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Lead	17		0.31	0.15	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Magnesium	7000		6.3	3.1	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Manganese	350		0.63	0.091	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Nickel	15		0.63	0.18	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Potassium	1000		31	11	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Silver	0.94		0.31	0.081	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Sodium	1100	B	63	9.3	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Vanadium	27		0.31	0.074	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1
Zinc	49		1.3	0.55	mg/Kg	☼	05/19/20 17:35	05/20/20 10:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:34	1
Iron	<0.40		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 19:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 19:34	1
Manganese	2.7		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182191-1

Client Sample ID: 2582V2-7-B01

Lab Sample ID: 500-182191-1

Date Collected: 05/18/20 14:15

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.031	J	0.050	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Barium	0.65		0.50	0.050	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Beryllium	0.0040		0.0040	0.0040	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Boron	0.11		0.10	0.050	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Calcium	29		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Chromium	0.14		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Cobalt	0.018	J	0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Iron	120		0.40	0.20	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Lead	0.080		0.0075	0.0075	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Manganese	0.67		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Nickel	0.073		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Potassium	11		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Selenium	<0.050		0.050	0.020	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Silver	<0.025		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:33	1
Zinc	0.41	J	0.50	0.020	mg/L	-	05/27/20 06:16	05/27/20 21:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	05/27/20 06:16	05/27/20 13:09	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	05/27/20 06:16	05/27/20 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L	-	05/27/20 09:30	05/28/20 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0065	mg/Kg	⊛	05/20/20 13:30	05/21/20 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.31	mg/Kg	⊛	05/29/20 10:10	05/29/20 14:08	1
pH	7.7		0.2	0.2	SU			05/20/20 17:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182191-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182191-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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 335 (IL 176) Office Phone Number, if available: _____

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

1707 Nish Road

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27787 Longitude: - 88.22978
(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.): 327

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS 2582V2-8-B01, 2582V2-8-B02 AND 2582V2-8-B03 WERE SAMPLED ADJACENT TO SITE 2582V2-8. SEE TABLE 3g 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 NUMBERS: 500-182264-1 AND 500-182339-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-8

Carlos River Café

Sample ID	2582V2-8-B01	2582V2-8-B02	2582V2-8-B03-1	2582V2-8-B03-2	Maximum Allowable Concentration				
					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 Depth (ft)	0-4	0-6	0-6.5	6.5-13					
Sample Date	5/19/2020	5/20/2020	5/19/2020	5/19/2020					
PID	0	0	0	0					
Sample pH	7.6	7.7	7.4	7.2					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182264-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 10:26:12 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B01

Lab Sample ID: 500-182264-1

Date Collected: 05/19/20 12:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
2-Butanone (MEK)	0.023		0.0050	0.0022	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Acetone	0.11		0.020	0.0087	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Bromomethane	<0.0050 *		0.0050	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Chloromethane	<0.0050 *		0.0050	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	05/19/20 18:19	05/22/20 15:34	1
4-Bromofluorobenzene (Surr)	103		75 - 131	05/19/20 18:19	05/22/20 15:34	1
Dibromofluoromethane	96		75 - 126	05/19/20 18:19	05/22/20 15:34	1
Toluene-d8 (Surr)	91		75 - 124	05/19/20 18:19	05/22/20 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B01

Lab Sample ID: 500-182264-1

Date Collected: 05/19/20 12:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2-Methylnaphthalene	<0.084		0.084	0.0076	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B01

Lab Sample ID: 500-182264-1

Date Collected: 05/19/20 12:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	05/28/20 16:28	05/29/20 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		31 - 143				05/28/20 16:28	05/29/20 13:58	1
2-Fluorobiphenyl	78		43 - 145				05/28/20 16:28	05/29/20 13:58	1
2-Fluorophenol	84		31 - 166				05/28/20 16:28	05/29/20 13:58	1
Nitrobenzene-d5	65		37 - 147				05/28/20 16:28	05/29/20 13:58	1
Phenol-d5	89		30 - 153				05/28/20 16:28	05/29/20 13:58	1
Terphenyl-d14	83		42 - 157				05/28/20 16:28	05/29/20 13:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J B	1.2	0.24	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Arsenic	4.2		0.61	0.21	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Barium	70		0.61	0.070	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Beryllium	0.54		0.25	0.057	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Boron	4.9		3.1	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Cadmium	0.072	J B	0.12	0.022	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Calcium	16000	B	12	2.1	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Chromium	15		0.61	0.30	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Cobalt	6.0		0.31	0.080	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Copper	11		0.61	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Iron	11000		12	6.4	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Lead	9.5		0.31	0.14	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Magnesium	10000	B	6.1	3.0	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Manganese	170		0.61	0.089	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Nickel	16		0.61	0.18	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Potassium	880		31	11	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Silver	0.92		0.31	0.079	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Sodium	490	B	61	9.1	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Thallium	<0.61		0.61	0.31	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Vanadium	28		0.31	0.072	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1
Zinc	48		1.2	0.54	mg/Kg	☼	05/21/20 07:14	05/21/20 20:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:02	1
Manganese	9.6		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:02	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B01

Lab Sample ID: 500-182264-1

Date Collected: 05/19/20 12:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.019	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:56	1
Barium	0.37	J	0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:56	1
Boron	0.11		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:56	1
Calcium	13		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:56	1
Chromium	0.065		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:56	1
Cobalt	0.014	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:56	1
Iron	54		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:56	1
Lead	0.031		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:56	1
Manganese	0.21		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:56	1
Nickel	0.047		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:56	1
Potassium	5.0		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:56	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:56	1
Silver	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:56	1
Zinc	0.18	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:56	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		05/28/20 05:59	05/29/20 18:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 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		05/28/20 10:05	05/29/20 10:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0063	mg/Kg	☼	05/27/20 13:30	05/28/20 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	06/01/20 09:30	06/01/20 15:45	1
pH	7.6		0.2	0.2	SU			05/20/20 17:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B03-1

Lab Sample ID: 500-182264-2

Date Collected: 05/19/20 11:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00072	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Acetone	0.018	J	0.020	0.0089	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Chloromethane	<0.0051	*	0.0051	0.0021	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Tetrachloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Toluene	<0.0020		0.0020	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00091	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	05/19/20 18:19	05/22/20 15:59	1
4-Bromofluorobenzene (Surr)	99		75 - 131	05/19/20 18:19	05/22/20 15:59	1
Dibromofluoromethane	96		75 - 126	05/19/20 18:19	05/22/20 15:59	1
Toluene-d8 (Surr)	91		75 - 124	05/19/20 18:19	05/22/20 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B03-1

Lab Sample ID: 500-182264-2

Date Collected: 05/19/20 11:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B03-1

Lab Sample ID: 500-182264-2

Date Collected: 05/19/20 11:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/28/20 16:28	05/29/20 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	88		31 - 143				05/28/20 16:28	05/29/20 14:22	1
2-Fluorobiphenyl	94		43 - 145				05/28/20 16:28	05/29/20 14:22	1
2-Fluorophenol	98		31 - 166				05/28/20 16:28	05/29/20 14:22	1
Nitrobenzene-d5	79		37 - 147				05/28/20 16:28	05/29/20 14:22	1
Phenol-d5	104		30 - 153				05/28/20 16:28	05/29/20 14:22	1
Terphenyl-d14	95		42 - 157				05/28/20 16:28	05/29/20 14:22	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	☼	05/21/20 07:14	05/21/20 20:27	1
Arsenic	5.3		0.54	0.18	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Barium	52		0.54	0.061	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Beryllium	0.49		0.21	0.050	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Boron	9.2		2.7	0.25	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Cadmium	0.079	J B	0.11	0.019	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Calcium	43000	B	21	3.6	mg/Kg	☼	05/21/20 07:14	05/22/20 09:16	2
Chromium	13		0.54	0.27	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Cobalt	8.9		0.54	0.14	mg/Kg	☼	05/21/20 07:14	05/22/20 09:16	2
Copper	16		0.54	0.15	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Iron	14000		11	5.6	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Lead	8.0		0.27	0.12	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Magnesium	26000	B	5.4	2.7	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Manganese	450		0.54	0.078	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Nickel	24		0.54	0.16	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Potassium	1800		27	9.5	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Silver	0.83		0.27	0.069	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Sodium	350	B	54	7.9	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Vanadium	22		0.27	0.063	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1
Zinc	63		1.1	0.47	mg/Kg	☼	05/21/20 07:14	05/21/20 20:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:05	1
Manganese	2.7		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:05	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B03-1

Lab Sample ID: 500-182264-2

Date Collected: 05/19/20 11:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.022	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 21:00	1
Barium	0.39	J	0.50	0.050	mg/L		05/28/20 05:59	05/28/20 21:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 21:00	1
Boron	0.13		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 21:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 21:00	1
Calcium	14		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 21:00	1
Chromium	0.081		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:00	1
Cobalt	0.017	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:00	1
Iron	60		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 21:00	1
Lead	0.026		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 21:00	1
Manganese	0.36		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:00	1
Nickel	0.070		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:00	1
Potassium	19		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 21:00	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 21:00	1
Silver	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:00	1
Zinc	0.25	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 18:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 10:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0057	mg/Kg	☼	05/27/20 13:30	05/28/20 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.28	mg/Kg	☼	06/01/20 09:30	06/01/20 15:46	1
pH	7.4		0.2	0.2	SU			05/20/20 17:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B03-2

Lab Sample ID: 500-182264-3

Date Collected: 05/19/20 11:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Acetone	0.022		0.017	0.0074	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Chloromethane	<0.0043	*	0.0043	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/19/20 18:19	05/22/20 16:25	1
4-Bromofluorobenzene (Surr)	100		75 - 131	05/19/20 18:19	05/22/20 16:25	1
Dibromofluoromethane	96		75 - 126	05/19/20 18:19	05/22/20 16:25	1
Toluene-d8 (Surr)	91		75 - 124	05/19/20 18:19	05/22/20 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B03-2

Lab Sample ID: 500-182264-3

Date Collected: 05/19/20 11:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B03-2

Lab Sample ID: 500-182264-3

Date Collected: 05/19/20 11:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/28/20 16:28	05/29/20 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		31 - 143				05/28/20 16:28	05/29/20 14:47	1
2-Fluorobiphenyl	80		43 - 145				05/28/20 16:28	05/29/20 14:47	1
2-Fluorophenol	84		31 - 166				05/28/20 16:28	05/29/20 14:47	1
Nitrobenzene-d5	67		37 - 147				05/28/20 16:28	05/29/20 14:47	1
Phenol-d5	88		30 - 153				05/28/20 16:28	05/29/20 14:47	1
Terphenyl-d14	85		42 - 157				05/28/20 16:28	05/29/20 14:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Arsenic	5.2		0.58	0.20	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Barium	68		0.58	0.066	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Beryllium	0.54		0.23	0.054	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Boron	3.3		2.9	0.27	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Cadmium	0.025	J B	0.12	0.021	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Calcium	2100	B	12	2.0	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Chromium	15		0.58	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Cobalt	9.7		0.29	0.076	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Copper	9.2		0.58	0.16	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Iron	14000		12	6.0	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Lead	11		0.29	0.13	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Magnesium	2500	B	5.8	2.9	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Manganese	350		0.58	0.084	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Nickel	13		0.58	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Potassium	1100		29	10	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Silver	1.0		0.29	0.074	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Sodium	330	B	58	8.5	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Vanadium	28		0.29	0.068	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1
Zinc	40		1.2	0.51	mg/Kg	☼	05/21/20 07:14	05/21/20 20:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 19:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 19:14	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:14	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Client Sample ID: 2582V2-8-B03-2

Lab Sample ID: 500-182264-3

Date Collected: 05/19/20 11:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:14	1
Manganese	0.11		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:14	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.058		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 21:04	1
Barium	0.66		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 21:04	1
Beryllium	0.0071		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 21:04	1
Boron	0.13		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 21:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 21:04	1
Calcium	18		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 21:04	1
Chromium	0.17		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:04	1
Cobalt	0.035		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:04	1
Iron	160		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 21:04	1
Lead	0.070		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 21:04	1
Manganese	0.71		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:04	1
Nickel	0.14		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:04	1
Potassium	15		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 21:04	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 21:04	1
Silver	0.027		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 21:04	1
Zinc	0.42	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 18:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L		05/28/20 10:05	05/29/20 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.0066	mg/Kg	☼	05/27/20 13:30	05/28/20 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.26	mg/Kg	☼	06/01/20 09:30	06/01/20 15:46	1
pH	7.2		0.2	0.2	SU			05/20/20 17:41	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Qualifiers

GC/MS VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182264-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>AE7-035A</u>	COC No.: _____ of _____
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: 184-006/035A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-182264</u> Sample Temp: <u>2.3</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.		Analyses	Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES											Comments		
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids		Waste Characterization	
1	<u>2582V2-8-B01</u>	<u>5/14</u>	<u>1200</u>	<u>S</u>	X	X						X	X	X	X	X		
2	2582V2-8-B02																	
2	<u>2582V2-8-B03-1</u>		<u>1145</u>		↓	↓						↓	↓	↓	↓	↓		
3	<u>2582V2-8-B03-2</u>		<u>1150</u>		↓	↓						↓	↓	↓	↓	↓		



500-182264 COC

Relinquished by: <u>Matt</u>	Date/Time: <u>5/14 1635</u>	Received by: <u>Daria Buckley</u>	Date/Time: <u>5/19/20 1635</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182339-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 11:38:09 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182339-1

Client Sample ID: 2582V2-8-B02

Lab Sample ID: 500-182339-1

Date Collected: 05/20/20 09:25

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
1,2-Dichloropropane	<0.0018 *		0.0018	0.00047	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
2-Butanone (MEK)	0.0083		0.0046	0.0020	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Acetone	0.036		0.018	0.0080	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Bromomethane	<0.0046 *		0.0046	0.0017	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1
Xylenes, Total	0.00070 J		0.0037	0.00059	mg/Kg	☼	05/20/20 17:38	05/27/20 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	05/20/20 17:38	05/27/20 13:09	1
4-Bromofluorobenzene (Surr)	99		75 - 131	05/20/20 17:38	05/27/20 13:09	1
Dibromofluoromethane	94		75 - 126	05/20/20 17:38	05/27/20 13:09	1
Toluene-d8 (Surr)	92		75 - 124	05/20/20 17:38	05/27/20 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182339-1

Client Sample ID: 2582V2-8-B02

Lab Sample ID: 500-182339-1

Date Collected: 05/20/20 09:25

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Acenaphthylene	0.031	J	0.040	0.0053	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Anthracene	0.038	J	0.040	0.0067	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Benzo[a]pyrene	0.0083	J	0.040	0.0078	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Benzo[b]fluoranthene	0.013	J	0.040	0.0087	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Fluoranthene	0.047		0.040	0.0075	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182339-1

Client Sample ID: 2582V2-8-B02

Lab Sample ID: 500-182339-1

Date Collected: 05/20/20 09:25

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Phenanthrene	0.038	J	0.040	0.0056	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Pyrene	0.0094	J	0.040	0.0080	mg/Kg	☼	06/01/20 16:31	06/02/20 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		31 - 143				06/01/20 16:31	06/02/20 20:35	1
2-Fluorobiphenyl	71		43 - 145				06/01/20 16:31	06/02/20 20:35	1
2-Fluorophenol	98		31 - 166				06/01/20 16:31	06/02/20 20:35	1
Nitrobenzene-d5	73		37 - 147				06/01/20 16:31	06/02/20 20:35	1
Phenol-d5	81		30 - 153				06/01/20 16:31	06/02/20 20:35	1
Terphenyl-d14	95		42 - 157				06/01/20 16:31	06/02/20 20:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.2	0.23	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Arsenic	3.5		0.58	0.20	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Barium	74		0.58	0.067	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Beryllium	0.48		0.23	0.055	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Boron	4.9		2.9	0.27	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Cadmium	0.15	B	0.12	0.021	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Calcium	12000	B	12	2.0	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Chromium	14		0.58	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Cobalt	6.1		0.58	0.15	mg/Kg	☼	05/21/20 18:25	05/22/20 21:35	2
Copper	11		0.58	0.16	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Iron	11000		12	6.1	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Lead	20		0.29	0.13	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Magnesium	7600	B	5.8	2.9	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Manganese	390	B	0.58	0.085	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Nickel	13		0.58	0.17	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Potassium	1200		29	10	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Silver	0.84		0.29	0.075	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Sodium	1200		58	8.6	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Vanadium	19		0.29	0.069	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	1
Zinc	55		1.2	0.51	mg/Kg	☼	05/21/20 18:25	05/22/20 20:24	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		05/28/20 05:59	05/28/20 20:46	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:46	1
Iron	0.21	J	0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182339-1

Client Sample ID: 2582V2-8-B02

Lab Sample ID: 500-182339-1

Date Collected: 05/20/20 09:25

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	10		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.045	J	0.050	0.010	mg/L		05/27/20 06:16	05/28/20 00:03	1
Barium	0.68		0.50	0.050	mg/L		05/27/20 06:16	05/28/20 00:03	1
Beryllium	0.0055		0.0040	0.0040	mg/L		05/27/20 06:16	05/28/20 00:03	1
Boron	0.14		0.10	0.050	mg/L		05/27/20 06:16	05/28/20 00:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/28/20 00:03	1
Calcium	21		2.5	0.50	mg/L		05/27/20 06:16	05/28/20 00:03	1
Chromium	0.14		0.025	0.010	mg/L		05/27/20 06:16	05/28/20 00:03	1
Cobalt	0.031		0.025	0.010	mg/L		05/27/20 06:16	05/28/20 00:03	1
Iron	88		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 10:14	1
Lead	0.15		0.0075	0.0075	mg/L		05/27/20 06:16	05/28/20 00:03	1
Manganese	1.5		0.025	0.010	mg/L		05/27/20 06:16	05/28/20 00:03	1
Nickel	0.090		0.025	0.010	mg/L		05/27/20 06:16	05/28/20 00:03	1
Potassium	15		2.5	0.50	mg/L		05/27/20 06:16	05/28/20 00:03	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/28/20 00:03	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/28/20 00:03	1
Zinc	0.41	J	0.50	0.020	mg/L		05/27/20 06:16	05/28/20 00:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 09:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0058	mg/Kg	☼	05/28/20 14:00	05/29/20 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.30	mg/Kg	☼	06/01/20 13:00	06/01/20 15:57	1
pH	7.7		0.2	0.2	SU			05/22/20 13:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182339-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182339-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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 335 (IL 176) Office Phone Number, if available: _____

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

1604-1610 Nish Road and 3521 Riverside Drive

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27796 Longitude: -88.22869
(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.): 24

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 2582V2-11-B01 WAS SAMPLED ADJACENT TO SITE 2582V2-11. SEE TABLE 3h 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: 500-182192-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-11

Residences

Sample ID	2582V2-11-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-3					
Sample Date	5/18/2020	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	8.3					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182192-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/2/2020 3:07:01 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182192-1

Client Sample ID: 2582V2-11-B01

Lab Sample ID: 500-182192-1

Date Collected: 05/18/20 14:20

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Bromomethane	<0.0043 *		0.0043	0.0016	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	05/19/20 18:19	05/21/20 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	05/19/20 18:19	05/21/20 13:01	1
4-Bromofluorobenzene (Surr)	106		75 - 131	05/19/20 18:19	05/21/20 13:01	1
Dibromofluoromethane	93		75 - 126	05/19/20 18:19	05/21/20 13:01	1
Toluene-d8 (Surr)	88		75 - 124	05/19/20 18:19	05/21/20 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182192-1

Client Sample ID: 2582V2-11-B01

Lab Sample ID: 500-182192-1

Date Collected: 05/18/20 14:20

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.32	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Benzo[a]anthracene	0.030	J	0.040	0.0054	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Benzo[a]pyrene	0.068		0.040	0.0078	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Benzo[b]fluoranthene	0.091		0.040	0.0087	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Benzo[g,h,i]perylene	0.036	J	0.040	0.013	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Benzo[k]fluoranthene	0.028	J	0.040	0.012	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Chrysene	0.048		0.040	0.011	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Fluoranthene	0.091		0.040	0.0075	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182192-1

Client Sample ID: 2582V2-11-B01

Lab Sample ID: 500-182192-1

Date Collected: 05/18/20 14:20

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.030	J	0.040	0.010	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Phenanthrene	0.036	J	0.040	0.0056	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Pyrene	0.082		0.040	0.0080	mg/Kg	☼	05/27/20 16:04	05/29/20 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		31 - 143				05/27/20 16:04	05/29/20 17:14	1
2-Fluorobiphenyl	94		43 - 145				05/27/20 16:04	05/29/20 17:14	1
2-Fluorophenol	102		31 - 166				05/27/20 16:04	05/29/20 17:14	1
Nitrobenzene-d5	78		37 - 147				05/27/20 16:04	05/29/20 17:14	1
Phenol-d5	103		30 - 153				05/27/20 16:04	05/29/20 17:14	1
Terphenyl-d14	101		42 - 157				05/27/20 16:04	05/29/20 17:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.2	0.23	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Arsenic	4.7		0.60	0.20	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Barium	45		0.60	0.068	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Beryllium	0.39		0.24	0.056	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Boron	6.5		3.0	0.28	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Cadmium	0.16	B	0.12	0.021	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Calcium	84000	B	120	20	mg/Kg	☼	05/19/20 17:35	05/20/20 10:35	10
Chromium	10		0.60	0.29	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Cobalt	4.5		0.30	0.078	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Copper	12		0.60	0.17	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Iron	11000		12	6.2	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Lead	9.3		0.30	0.14	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Magnesium	35000		6.0	3.0	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Manganese	310		0.60	0.086	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Nickel	13		0.60	0.17	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Potassium	1000		30	11	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Silver	0.69		0.30	0.077	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Sodium	260	B	60	8.8	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Vanadium	20		0.30	0.070	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1
Zinc	40		1.2	0.52	mg/Kg	☼	05/19/20 17:35	05/20/20 10:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 19:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 19:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182192-1

Client Sample ID: 2582V2-11-B01

Lab Sample ID: 500-182192-1

Date Collected: 05/18/20 14:20

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018	J	0.050	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Barium	0.12	J	0.50	0.050	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Boron	<0.10		0.10	0.050	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Calcium	13		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Chromium	0.028		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Cobalt	<0.025		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Iron	24		0.40	0.20	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Lead	0.013		0.0075	0.0075	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Manganese	0.15		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Nickel	0.019	J	0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Potassium	4.4		2.5	0.50	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Selenium	<0.050		0.050	0.020	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Silver	<0.025		0.025	0.010	mg/L	-	05/27/20 06:16	05/27/20 21:37	1
Zinc	0.12	J	0.50	0.020	mg/L	-	05/27/20 06:16	05/27/20 21:37	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	-	05/27/20 06:16	05/27/20 13:10	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	05/27/20 06:16	05/27/20 13:10	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	-	05/27/20 09:30	05/28/20 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.020	0.0068	mg/Kg	☼	05/20/20 13:30	05/21/20 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.41		0.41	0.21	mg/Kg	☼	05/29/20 10:10	05/29/20 14:08	1
pH	8.3		0.2	0.2	SU			05/20/20 17:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182192-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182192-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com										Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com					Project Name: <u>AE7-035A</u> Project No.: <u>PTB/WO: 184-006/035A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____					COC No.: _____ of _____ Lab Job No.: <u>500-182192</u> Sample Temp: <u>2.6/18</u> Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other				
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter. *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide.					ANALYSES										Comments									
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization								
1	2582v2-11-B01	5/18	1420	S	X	X					X	X	X	X	X									
Relinquished by: <u>[Signature]</u>				Date/Time: <u>5/18 1735</u>		Received by: <u>[Signature]</u> TAI				Date/Time: <u>05/18 17:35</u>														
Relinquished by: _____				Date/Time: _____		Received by: _____				Date/Time: _____														
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: FAP 335 (IL 176) Office Phone Number, if available: _____

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

1600 block of IL 176 (northeast corner of IL 176 and Nish Road)

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27825 Longitude: -88.22897
(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.): 153

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 2582V2-12-B02 WAS SAMPLED ADJACENT TO SITE 2582V2-12. SEE TABLE 3i 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: 500-182194-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-12

Vacant Land

Sample ID	2582V2-12-B02	Maximum Allowable Concentration				
Sample Depth (ft)	0-5					
Sample Date	5/18/2020	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	8.5					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182194-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/2/2020 3:08:59 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182194-1

Client Sample ID: 2582V2-12-B02

Lab Sample ID: 500-182194-1

Date Collected: 05/18/20 14:30

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Acetone	0.018		0.018	0.0080	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/19/20 18:19	05/20/20 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/19/20 18:19	05/20/20 18:58	1
4-Bromofluorobenzene (Surr)	96		75 - 131	05/19/20 18:19	05/20/20 18:58	1
Dibromofluoromethane	93		75 - 126	05/19/20 18:19	05/20/20 18:58	1
Toluene-d8 (Surr)	102		75 - 124	05/19/20 18:19	05/20/20 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
1,2-Dichlorobenzene	<0.22		0.22	0.053	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
1,3-Dichlorobenzene	<0.22		0.22	0.050	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
1,4-Dichlorobenzene	<0.22		0.22	0.057	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.052	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182194-1

Client Sample ID: 2582V2-12-B02

Lab Sample ID: 500-182194-1

Date Collected: 05/18/20 14:30

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2,4-Dichlorophenol	<0.44		0.44	0.11	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2,4-Dinitrophenol	<0.90		0.90	0.78	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2,4-Dinitrotoluene	<0.22		0.22	0.071	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2,6-Dinitrotoluene	<0.22		0.22	0.088	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2-Chlorophenol	<0.22		0.22	0.076	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2-Methylnaphthalene	<0.090		0.090	0.0082	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2-Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2-Nitroaniline	<0.22		0.22	0.060	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
2-Nitrophenol	<0.44		0.44	0.11	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
3 & 4 Methylphenol	<0.22		0.22	0.074	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.062	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
4,6-Dinitro-2-methylphenol	<0.90		0.90	0.36	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.059	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
4-Chloroaniline	<0.90		0.90	0.21	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.052	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
4-Nitroaniline	<0.44		0.44	0.19	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
4-Nitrophenol	<0.90		0.90	0.42	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Acenaphthene	<0.044		0.044	0.0080	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Acenaphthylene	<0.044		0.044	0.0059	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Anthracene	<0.044		0.044	0.0074	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Benzo[a]anthracene	0.015	J	0.044	0.0060	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Benzo[a]pyrene	0.028	J	0.044	0.0086	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Benzo[b]fluoranthene	0.034	J	0.044	0.0096	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Benzo[g,h,i]perylene	<0.044		0.044	0.014	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Benzo[k]fluoranthene	0.014	J	0.044	0.013	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.067	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.081	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Butyl benzyl phthalate	<0.22		0.22	0.085	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Chrysene	0.023	J	0.044	0.012	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Dibenz(a,h)anthracene	<0.044		0.044	0.0086	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Diethyl phthalate	<0.22		0.22	0.075	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Dimethyl phthalate	<0.22		0.22	0.058	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Di-n-butyl phthalate	<0.22		0.22	0.068	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Di-n-octyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Fluoranthene	0.038	J	0.044	0.0083	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Fluorene	<0.044		0.044	0.0063	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Hexachlorobenzene	<0.090		0.090	0.010	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Hexachlorobutadiene	<0.22		0.22	0.070	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Hexachlorocyclopentadiene	<0.90		0.90	0.26	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Hexachloroethane	<0.22		0.22	0.068	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182194-1

Client Sample ID: 2582V2-12-B02

Lab Sample ID: 500-182194-1

Date Collected: 05/18/20 14:30

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 73.2

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	<0.044		0.044	0.012	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Isophorone	<0.22		0.22	0.050	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Naphthalene	<0.044		0.044	0.0069	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
N-Nitrosodi-n-propylamine	<0.090		0.090	0.054	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
N-Nitrosodiphenylamine	<0.22		0.22	0.053	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Pentachlorophenol	<0.90		0.90	0.71	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Phenanthrene	0.021	J	0.044	0.0062	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Phenol	<0.22		0.22	0.099	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Pyrene	0.038	J	0.044	0.0088	mg/Kg	☼	05/27/20 16:04	05/28/20 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		31 - 143				05/27/20 16:04	05/28/20 15:46	1
2-Fluorobiphenyl	89		43 - 145				05/27/20 16:04	05/28/20 15:46	1
2-Fluorophenol	91		31 - 166				05/27/20 16:04	05/28/20 15:46	1
Nitrobenzene-d5	73		37 - 147				05/27/20 16:04	05/28/20 15:46	1
Phenol-d5	93		30 - 153				05/27/20 16:04	05/28/20 15:46	1
Terphenyl-d14	90		42 - 157				05/27/20 16:04	05/28/20 15:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.26	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Arsenic	2.8		0.68	0.23	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Barium	37		0.68	0.077	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Beryllium	0.44		0.27	0.063	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Boron	5.6		3.4	0.31	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Cadmium	0.10	J B	0.14	0.024	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Calcium	27000	B	14	2.3	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Chromium	10		0.68	0.33	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Cobalt	5.5		0.34	0.088	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Copper	9.3		0.68	0.19	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Iron	9200		14	7.0	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Lead	9.9		0.34	0.16	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Magnesium	14000		6.8	3.4	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Manganese	230		0.68	0.098	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Nickel	13		0.68	0.20	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Potassium	1200		34	12	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Selenium	<0.68		0.68	0.40	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Silver	0.60		0.34	0.087	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Sodium	1300	B	68	10	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Thallium	<0.68		0.68	0.34	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Vanadium	19		0.34	0.080	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1
Zinc	33		1.4	0.59	mg/Kg	☼	05/19/20 17:35	05/20/20 09:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 19:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 19:45	1
Chromium	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:45	1
Iron	4.3		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 19:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182194-1

Client Sample ID: 2582V2-12-B02

Lab Sample ID: 500-182194-1

Date Collected: 05/18/20 14:30

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 19:45	1
Manganese	4.6		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:45	1
Nickel	0.015	J	0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 21:41	1
Barium	0.60		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 21:41	1
Beryllium	0.0070		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 21:41	1
Boron	0.13		0.10	0.050	mg/L		05/27/20 06:16	05/27/20 21:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 21:41	1
Calcium	26		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 21:41	1
Chromium	0.17		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:41	1
Cobalt	0.058		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:41	1
Iron	160		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 21:41	1
Lead	0.10		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 21:41	1
Manganese	1.9		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:41	1
Nickel	0.18		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:41	1
Potassium	23		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 21:41	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 21:41	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:41	1
Zinc	0.38	J	0.50	0.020	mg/L		05/27/20 06:16	05/27/20 21:41	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		05/27/20 06:16	05/27/20 13:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/29/20 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020	0.00020	mg/L		05/27/20 09:30	05/28/20 09:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.021	0.0069	mg/Kg	☼	05/20/20 13:30	05/21/20 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.25	mg/Kg	☼	05/29/20 10:10	05/29/20 14:09	1
pH	8.5		0.2	0.2	SU			05/20/20 17:13	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182194-1

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
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.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182194-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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15

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 500-182194 COC Contact: Colleen Grey email: cgrey@andrews-eng.com					Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com					Project Name: <u>AE7-035A</u>					COC No.: _____ of _____		
										Project No.: <u>PTB/WO: 184-006/035A</u>					Lab Job No.: <u>500-182194</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.					ANALYSES										Sample Temp: <u>26/18</u> 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
	<u>2582V2-12-B01-15/</u>			<u>S</u>	X	X					X	X	X	X	X		
	<u>2582V2-12-B01-2</u>																
	<u>2582V2-12-B02</u>	<u>5/18</u>	<u>1430</u>	<u>S</u>	X	X					X	X	X	X	X		
Relinquished by: <u>[Signature]</u>					Date/Time: <u>5/18 1735</u>					Received by: <u>[Signature] TAI</u>					Date/Time: <u>05/18 17:35</u>		
Relinquished by:					Date/Time:					Received by:					Date/Time:		
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: FAP 335 (IL 176) Office Phone Number, if available: _____

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

3517 South Wright Road

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27833 Longitude: -88.22979
(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: 1110605242 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 1,375

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS 2582V2-13-B01, 2582V2-13-B02, 2582V2-13-B04 AND 2582V2-13-B05 WERE SAMPLED ADJACENT TO SITE 2582V2-13. SEE TABLE 3j 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: 500-182261-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-13

Quality Car Care

Sample ID	2582V2-13-B01	2582V2-13-B01 DUP	2582V2-13-B02	2582V2-13-B04	2582V2-13-B05	Maximum Allowable Concentration						
Sample Depth (ft)	0-6	0-6	0-6	0-6	0-6	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	5/19/2020	5/19/2020	5/19/2020	5/19/2020	5/19/2020							
PID	0	0	0	0	0							
Sample pH	7.6	7.6	7.6	7.8	7.2							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	0.56	1,2	J 0.015	0.9	1,2	J 0.012	J 0.0094	0.09	0.09	0.98	1.3	2.1
Benzo(b)fluoranthene	0.8		J 0.018	1.3	1,2,3	J 0.013	J 0.012	0.9	0.9	0.9	1.5	2.1
Dibenzo(a,h)anthracene	0.078		ND	0.094	1,2	ND	ND	0.09	0.09	0.15	0.2	0.42

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182261-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 10:21:31 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B01

Lab Sample ID: 500-182261-1

Date Collected: 05/19/20 09:30

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
1,2-Dichloropropane	<0.0020		0.0020	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
2-Butanone (MEK)	0.010		0.0049	0.0022	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Acetone	0.049		0.020	0.0085	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Bromomethane	<0.0049 *		0.0049	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Chloromethane	<0.0049 *		0.0049	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Ethylbenzene	<0.0020		0.0020	0.00093	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Toluene	<0.0020		0.0020	0.00049	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Vinyl chloride	<0.0020		0.0020	0.00086	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/19/20 18:19	05/22/20 12:59	1
4-Bromofluorobenzene (Surr)	101		75 - 131	05/19/20 18:19	05/22/20 12:59	1
Dibromofluoromethane	93		75 - 126	05/19/20 18:19	05/22/20 12:59	1
Toluene-d8 (Surr)	90		75 - 124	05/19/20 18:19	05/22/20 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B01

Lab Sample ID: 500-182261-1

Date Collected: 05/19/20 09:30

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2-Methylnaphthalene	0.011	J	0.077	0.0071	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Acenaphthene	0.14		0.038	0.0069	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Acenaphthylene	0.0061	J	0.038	0.0051	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Anthracene	0.12		0.038	0.0064	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Benzo[a]anthracene	0.43		0.038	0.0052	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Benzo[a]pyrene	0.56		0.038	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Benzo[b]fluoranthene	0.80		0.038	0.0083	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Benzo[g,h,i]perylene	0.28		0.038	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Benzo[k]fluoranthene	0.33		0.038	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Carbazole	0.23		0.19	0.096	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Chrysene	0.60		0.038	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Dibenz(a,h)anthracene	0.078		0.038	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Dibenzofuran	0.10	J	0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Fluoranthene	1.7		0.038	0.0071	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Fluorene	0.17		0.038	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B01

Lab Sample ID: 500-182261-1

Date Collected: 05/19/20 09:30

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 83.0

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	0.28		0.038	0.0099	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Naphthalene	0.030	J	0.038	0.0059	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Phenanthrene	1.6		0.038	0.0053	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Pyrene	1.3		0.038	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		31 - 143				05/26/20 18:39	05/27/20 18:38	1
2-Fluorobiphenyl	83		43 - 145				05/26/20 18:39	05/27/20 18:38	1
2-Fluorophenol	92		31 - 166				05/26/20 18:39	05/27/20 18:38	1
Nitrobenzene-d5	73		37 - 147				05/26/20 18:39	05/27/20 18:38	1
Phenol-d5	102		30 - 153				05/26/20 18:39	05/27/20 18:38	1
Terphenyl-d14	97		42 - 157				05/26/20 18:39	05/27/20 18:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J B	1.2	0.23	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Arsenic	5.6		0.58	0.20	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Barium	78		0.58	0.066	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Beryllium	0.68		0.23	0.054	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Boron	4.2		2.9	0.27	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Calcium	2600	B	12	2.0	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Chromium	22		0.58	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Cobalt	5.8		0.58	0.15	mg/Kg	☼	05/21/20 07:14	05/22/20 09:07	2
Copper	11		0.58	0.16	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Iron	20000		12	6.1	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Lead	12		0.29	0.13	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Magnesium	3000	B	5.8	2.9	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Manganese	200		0.58	0.084	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Nickel	20		0.58	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Potassium	1400		29	10	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Silver	1.2		0.29	0.075	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Sodium	260	B	58	8.6	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Vanadium	35		0.29	0.069	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1
Zinc	58		1.2	0.51	mg/Kg	☼	05/21/20 07:14	05/21/20 19:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:17	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:17	1
Manganese	0.56		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B01

Lab Sample ID: 500-182261-1

Date Collected: 05/19/20 09:30

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.024	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 19:57	1
Barium	0.53		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 19:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 19:57	1
Boron	0.079	J	0.10	0.050	mg/L		05/28/20 05:59	05/28/20 19:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 19:57	1
Calcium	17		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 19:57	1
Chromium	0.16		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:57	1
Cobalt	0.019	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:57	1
Iron	100		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:57	1
Lead	0.043		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:57	1
Manganese	0.55		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:57	1
Nickel	0.099		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:57	1
Potassium	13		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 19:57	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 19:57	1
Silver	0.014	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:57	1
Zinc	0.39	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0063	mg/Kg	☼	05/27/20 13:30	05/28/20 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	06/01/20 09:30	06/01/20 15:37	1
pH	7.6		0.2	0.2	SU			05/20/20 17:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B01 Dup

Lab Sample ID: 500-182261-2

Date Collected: 05/19/20 09:35

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
2-Butanone (MEK)	0.0061		0.0046	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Acetone	0.064		0.018	0.0080	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Bromomethane	<0.0046 *		0.0046	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Chloromethane	<0.0046 *		0.0046	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	05/19/20 18:19	05/22/20 13:25	1
4-Bromofluorobenzene (Surr)	101		75 - 131	05/19/20 18:19	05/22/20 13:25	1
Dibromofluoromethane	94		75 - 126	05/19/20 18:19	05/22/20 13:25	1
Toluene-d8 (Surr)	90		75 - 124	05/19/20 18:19	05/22/20 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B01 Dup

Lab Sample ID: 500-182261-2

Date Collected: 05/19/20 09:35

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Benzo[a]anthracene	0.010	J	0.040	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Benzo[a]pyrene	0.015	J	0.040	0.0078	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Benzo[b]fluoranthene	0.018	J	0.040	0.0086	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Chrysene	0.014	J	0.040	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Fluoranthene	0.032	J	0.040	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B01 Dup

Lab Sample ID: 500-182261-2

Date Collected: 05/19/20 09:35

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Phenanthrene	0.019	J	0.040	0.0056	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Pyrene	0.024	J	0.040	0.0080	mg/Kg	☼	05/26/20 18:39	05/27/20 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		31 - 143				05/26/20 18:39	05/27/20 19:01	1
2-Fluorobiphenyl	86		43 - 145				05/26/20 18:39	05/27/20 19:01	1
2-Fluorophenol	94		31 - 166				05/26/20 18:39	05/27/20 19:01	1
Nitrobenzene-d5	74		37 - 147				05/26/20 18:39	05/27/20 19:01	1
Phenol-d5	107		30 - 153				05/26/20 18:39	05/27/20 19:01	1
Terphenyl-d14	104		42 - 157				05/26/20 18:39	05/27/20 19:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J B	1.2	0.24	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Arsenic	2.2		0.61	0.21	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Barium	50		0.61	0.070	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Beryllium	0.41		0.25	0.057	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Boron	3.8		3.1	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Cadmium	0.069	J B	0.12	0.022	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Calcium	13000	B	12	2.1	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Chromium	25		0.61	0.30	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Cobalt	3.7		0.31	0.080	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Copper	9.5		0.61	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Iron	9100		12	6.4	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Lead	10		0.31	0.14	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Magnesium	7800	B	6.1	3.0	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Manganese	170		0.61	0.089	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Nickel	14		0.61	0.18	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Potassium	940		31	11	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Silver	0.80		0.31	0.079	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Sodium	180	B	61	9.1	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Thallium	<0.61		0.61	0.31	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Vanadium	18		0.31	0.073	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1
Zinc	36		1.2	0.54	mg/Kg	☼	05/21/20 07:14	05/21/20 19:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:20	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:20	1
Manganese	1.7		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B01 Dup

Lab Sample ID: 500-182261-2

Date Collected: 05/19/20 09:35

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:01	1
Barium	0.38	J	0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:01	1
Boron	0.077	J	0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:01	1
Calcium	16		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:01	1
Chromium	0.11		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:01	1
Cobalt	0.010	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:01	1
Iron	63		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:01	1
Lead	0.044		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:01	1
Manganese	0.43		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:01	1
Nickel	0.058		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:01	1
Potassium	8.3		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:01	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:01	1
Silver	0.011	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:01	1
Zinc	0.25	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0061	mg/Kg	☼	05/27/20 13:30	05/28/20 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.63		0.63	0.31	mg/Kg	☼	06/01/20 09:30	06/01/20 15:38	1
pH	7.6		0.2	0.2	SU			05/20/20 17:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B02

Lab Sample ID: 500-182261-3

Date Collected: 05/19/20 09:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
2-Butanone (MEK)	0.0086		0.0049	0.0022	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Acetone	0.085		0.020	0.0085	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Bromomethane	<0.0049 *		0.0049	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Chloromethane	<0.0049 *		0.0049	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Toluene	<0.0020		0.0020	0.00049	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/19/20 18:19	05/22/20 13:50	1
4-Bromofluorobenzene (Surr)	101		75 - 131	05/19/20 18:19	05/22/20 13:50	1
Dibromofluoromethane	93		75 - 126	05/19/20 18:19	05/22/20 13:50	1
Toluene-d8 (Surr)	89		75 - 124	05/19/20 18:19	05/22/20 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B02

Lab Sample ID: 500-182261-3

Date Collected: 05/19/20 09:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Acenaphthene	0.095		0.041	0.0073	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Acenaphthylene	0.014 J		0.041	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Anthracene	0.31		0.041	0.0068	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Benzo[a]anthracene	0.45		0.041	0.0055	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Benzo[a]pyrene	0.90		0.041	0.0079	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Benzo[b]fluoranthene	1.3		0.041	0.0088	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Benzo[g,h,i]perylene	0.26		0.041	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Benzo[k]fluoranthene	0.43		0.041	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Chrysene	0.63		0.041	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Dibenz(a,h)anthracene	0.094		0.041	0.0079	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Fluoranthene	1.9		0.041	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Fluorene	0.16		0.041	0.0057	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B02

Lab Sample ID: 500-182261-3

Date Collected: 05/19/20 09:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.2

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	0.29		0.041	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
N-Nitrosodiphenylamine	<0.21 *		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Phenanthrene	1.3		0.041	0.0057	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Pyrene	1.8		0.041	0.0081	mg/Kg	☼	05/26/20 18:39	05/27/20 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		31 - 143				05/26/20 18:39	05/27/20 19:25	1
2-Fluorobiphenyl	78		43 - 145				05/26/20 18:39	05/27/20 19:25	1
2-Fluorophenol	84		31 - 166				05/26/20 18:39	05/27/20 19:25	1
Nitrobenzene-d5	68		37 - 147				05/26/20 18:39	05/27/20 19:25	1
Phenol-d5	98		30 - 153				05/26/20 18:39	05/27/20 19:25	1
Terphenyl-d14	98		42 - 157				05/26/20 18:39	05/27/20 19:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J B	1.2	0.24	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Arsenic	2.9		0.62	0.21	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Barium	120		0.62	0.071	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Beryllium	0.76		0.25	0.058	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Boron	4.0		3.1	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Calcium	2800	B	12	2.1	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Chromium	20		0.62	0.31	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Cobalt	8.1		0.31	0.081	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Copper	12		0.62	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Iron	16000		12	6.5	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Lead	11		0.31	0.14	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Magnesium	3000	B	6.2	3.1	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Manganese	210		0.62	0.090	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Nickel	20		0.62	0.18	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Potassium	1300		31	11	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Selenium	<0.62		0.62	0.37	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Silver	0.99		0.31	0.080	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Sodium	350	B	62	9.2	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Vanadium	31		0.31	0.073	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	1
Zinc	46		1.2	0.55	mg/Kg	☼	05/21/20 07:14	05/21/20 19:55	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		05/28/20 05:59	05/28/20 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:23	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B02

Lab Sample ID: 500-182261-3

Date Collected: 05/19/20 09:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.4		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:23	1
Nickel	0.023	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:05	1
Barium	1.1		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:05	1
Beryllium	0.0063		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:05	1
Boron	0.098	J	0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:05	1
Calcium	24		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:05	1
Chromium	0.18		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:05	1
Cobalt	0.038		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:05	1
Iron	130		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:05	1
Lead	0.074		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:05	1
Manganese	1.1		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:05	1
Nickel	0.11		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:05	1
Potassium	14		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:05	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:05	1
Silver	0.021	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:05	1
Zinc	0.37	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00050		0.00050	0.00050	mg/L		05/28/20 10:05	05/29/20 09:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.0067	mg/Kg	☼	05/27/20 13:30	05/28/20 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.31	mg/Kg	☼	06/01/20 09:30	06/01/20 15:39	1
pH	7.6		0.2	0.2	SU			05/20/20 17:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B04

Lab Sample ID: 500-182261-5

Date Collected: 05/19/20 10:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
2-Butanone (MEK)	0.0074		0.0048	0.0021	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Acetone	0.19		0.019	0.0083	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Bromomethane	<0.0048 *		0.0048	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Chloromethane	<0.0048 *		0.0048	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/19/20 18:19	05/22/20 14:42	1
4-Bromofluorobenzene (Surr)	101		75 - 131	05/19/20 18:19	05/22/20 14:42	1
Dibromofluoromethane	94		75 - 126	05/19/20 18:19	05/22/20 14:42	1
Toluene-d8 (Surr)	90		75 - 124	05/19/20 18:19	05/22/20 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B04

Lab Sample ID: 500-182261-5

Date Collected: 05/19/20 10:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Benzo[a]anthracene	0.0080	J	0.040	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Benzo[a]pyrene	0.012	J	0.040	0.0078	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Benzo[b]fluoranthene	0.013	J	0.040	0.0087	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Fluoranthene	0.020	J	0.040	0.0075	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B04

Lab Sample ID: 500-182261-5

Date Collected: 05/19/20 10:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Phenanthrene	0.018	J	0.040	0.0056	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Pyrene	0.017	J	0.040	0.0080	mg/Kg	☼	05/26/20 18:39	05/27/20 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		31 - 143				05/26/20 18:39	05/27/20 20:12	1
2-Fluorobiphenyl	89		43 - 145				05/26/20 18:39	05/27/20 20:12	1
2-Fluorophenol	99		31 - 166				05/26/20 18:39	05/27/20 20:12	1
Nitrobenzene-d5	75		37 - 147				05/26/20 18:39	05/27/20 20:12	1
Phenol-d5	105		30 - 153				05/26/20 18:39	05/27/20 20:12	1
Terphenyl-d14	103		42 - 157				05/26/20 18:39	05/27/20 20:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J B	1.2	0.22	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Arsenic	3.8		0.58	0.20	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Barium	93		0.58	0.066	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Beryllium	0.70		0.23	0.054	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Boron	4.4		2.9	0.27	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Cadmium	0.092	J B	0.12	0.021	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Calcium	13000	B	12	2.0	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Chromium	16		0.58	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Cobalt	8.1		0.29	0.076	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Copper	17		0.58	0.16	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Iron	17000		12	6.0	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Lead	15		0.29	0.13	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Magnesium	8800	B	5.8	2.9	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Manganese	360		0.58	0.084	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Nickel	20		0.58	0.17	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Potassium	1300		29	10	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Silver	1.2		0.29	0.074	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Sodium	180	B	58	8.5	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Vanadium	31		0.29	0.068	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1
Zinc	53		1.2	0.51	mg/Kg	☼	05/21/20 07:14	05/21/20 20:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:29	1
Manganese	5.3		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B04

Lab Sample ID: 500-182261-5

Date Collected: 05/19/20 10:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:13	1
Barium	0.36	J	0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:13	1
Boron	0.067	J	0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:13	1
Calcium	16		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:13	1
Chromium	0.070		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:13	1
Cobalt	0.011	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:13	1
Iron	57		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:13	1
Lead	0.041		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:13	1
Manganese	0.35		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:13	1
Nickel	0.048		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:13	1
Potassium	6.2		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:13	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:13	1
Silver	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:13	1
Zinc	0.15	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.018	0.0060	mg/Kg	☼	05/27/20 13:30	05/28/20 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.30	mg/Kg	☼	06/01/20 09:30	06/01/20 15:39	1
pH	7.8		0.2	0.2	SU			05/20/20 18:04	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B05

Lab Sample ID: 500-182261-6

Date Collected: 05/19/20 09:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Acetone	0.0091	J	0.018	0.0077	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Bromomethane	<0.0044	*	0.0044	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Chloromethane	<0.0044	*	0.0044	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1
Xylenes, Total	0.00063	J	0.0035	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	05/19/20 18:19	05/22/20 15:08	1
4-Bromofluorobenzene (Surr)	101		75 - 131	05/19/20 18:19	05/22/20 15:08	1
Dibromofluoromethane	91		75 - 126	05/19/20 18:19	05/22/20 15:08	1
Toluene-d8 (Surr)	90		75 - 124	05/19/20 18:19	05/22/20 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B05

Lab Sample ID: 500-182261-6

Date Collected: 05/19/20 09:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Benzo[a]pyrene	0.0094	J	0.038	0.0073	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Benzo[b]fluoranthene	0.012	J	0.038	0.0082	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Fluoranthene	0.017	J	0.038	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B05

Lab Sample ID: 500-182261-6

Date Collected: 05/19/20 09:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
N-Nitrosodiphenylamine	<0.19 *		0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Phenanthrene	0.012	J	0.038	0.0053	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Pyrene	0.014	J	0.038	0.0075	mg/Kg	☼	05/26/20 18:39	05/27/20 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		31 - 143				05/26/20 18:39	05/27/20 20:36	1
2-Fluorobiphenyl	83		43 - 145				05/26/20 18:39	05/27/20 20:36	1
2-Fluorophenol	92		31 - 166				05/26/20 18:39	05/27/20 20:36	1
Nitrobenzene-d5	71		37 - 147				05/26/20 18:39	05/27/20 20:36	1
Phenol-d5	101		30 - 153				05/26/20 18:39	05/27/20 20:36	1
Terphenyl-d14	102		42 - 157				05/26/20 18:39	05/27/20 20:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J B	1.1	0.22	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Arsenic	3.9		0.56	0.19	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Barium	98		0.56	0.064	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Beryllium	0.59		0.23	0.053	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Boron	4.5		2.8	0.26	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Cadmium	0.13	B	0.11	0.020	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Calcium	14000	B	11	1.9	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Chromium	14		0.56	0.28	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Cobalt	7.2		0.28	0.074	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Copper	13		0.56	0.16	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Iron	12000		11	5.9	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Lead	15		0.28	0.13	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Magnesium	8400	B	5.6	2.8	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Manganese	540		0.56	0.082	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Nickel	15		0.56	0.16	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Potassium	1200		28	10	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Silver	1.1		0.28	0.073	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Sodium	170	B	56	8.4	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Vanadium	24		0.28	0.067	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1
Zinc	51		1.1	0.50	mg/Kg	☼	05/21/20 07:14	05/21/20 20:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:38	1
Manganese	7.1		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Client Sample ID: 2582V2-13-B05

Lab Sample ID: 500-182261-6

Date Collected: 05/19/20 09:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018	J	0.050	0.010	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Barium	0.41	J	0.50	0.050	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Boron	0.072	J	0.10	0.050	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Calcium	16		2.5	0.50	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Chromium	0.067		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Cobalt	0.013	J	0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Iron	53		0.40	0.20	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Lead	0.036		0.0075	0.0075	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Manganese	0.59		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Nickel	0.037		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Potassium	5.6		2.5	0.50	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Selenium	<0.050		0.050	0.020	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Silver	<0.025		0.025	0.010	mg/L	-	05/28/20 05:59	05/28/20 20:16	1
Zinc	0.17	J	0.50	0.020	mg/L	-	05/28/20 05:59	05/28/20 20:16	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	-	05/28/20 05:59	05/29/20 17:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	05/28/20 05:59	05/29/20 17:47	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	-	05/28/20 10:05	05/29/20 10:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0060	mg/Kg	⊛	05/27/20 13:30	05/28/20 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	⊛	06/01/20 09:30	06/01/20 15:41	1
pH	7.2		0.2	0.2	SU			05/20/20 18:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182261-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory	Project Name: <u>AE7-035A</u>	COC No.: _____ of _____
		Lab: <u>Test America - Chicago</u> Address: <u>2417 Bond Street</u> <u>University Park, IL 60484</u> Phone: <u>708-534-5200</u> Contact: <u>Dick Wright</u> email: <u>richard.wright@testamericainc.com</u>	Project No.: <u>PTB/WO: 184-006/035A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>R. Senow</u>	Lab Job No.: <u>500-182261</u> Sample Temp: <u>5.0</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.

ANALYSES

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES											Comments		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids		Waste Characterization	
1	2582V2-13-B01	5/19	0930	S	X	X						X	X	X	X	X		
2	2582V2-13-B01		0935															
3	2582V2-13-B02		0945															
4	2582V2-13-B03		1005															
5	2582V2-13-B04		1000															
6	2582V2-13-B05	↓	0950	↓	↓	↓						↓	↓	↓	↓	↓		

Relinquished by: <u>mt lu</u>	Date/Time: <u>5/19 1635</u>	Received by: <u>Paula Buckley</u>	Date/Time: <u>5/19/20 1635</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
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: FAP 335 (IL 176) Office Phone Number, if available: _____

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

1737 Crescent Drive, 1702-1902 Nish Road, 2519-3506 Riverside Drive, and 3415 South Wright Road

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27819 Longitude: -88.23052
(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.): 725

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS 2582V2-14-B01, 2582V2-14-B02, 2582V2-14-B03 AND 2582V2-14-B04 WERE SAMPLED ADJACENT TO SITE 2582V2-14. SEE TABLE 3k 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 NUMBERS: 500-182338-1 AND 500-182268-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-14

Residences

Sample ID	2582V2-14-B01	2582V2-14-B02	2582V2-14-B03	2582V2-14-B04	Maximum Allowable Concentration				
					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 Depth (ft)	0-6	0-6	0-6	0-6					
Sample Date	5/20/2020	5/20/2020	5/19/2020	5/19/2020					
PID	0	0	0	0					
Sample pH	8.1	7.6	6.6	6.6					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182338-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 11:36:15 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Client Sample ID: 2582V2-14-B01

Lab Sample ID: 500-182338-1

Date Collected: 05/20/20 10:55

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.5

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	☼	05/20/20 17:38	05/26/20 19:47	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Acetone	0.013	J	0.019	0.0082	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Bromomethane	<0.0047	*	0.0047	0.0018	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	05/20/20 17:38	05/26/20 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	05/20/20 17:38	05/26/20 19:47	1
4-Bromofluorobenzene (Surr)	98		75 - 131	05/20/20 17:38	05/26/20 19:47	1
Dibromofluoromethane	95		75 - 126	05/20/20 17:38	05/26/20 19:47	1
Toluene-d8 (Surr)	89		75 - 124	05/20/20 17:38	05/26/20 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Client Sample ID: 2582V2-14-B01

Lab Sample ID: 500-182338-1

Date Collected: 05/20/20 10:55

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Fluoranthene	0.039		0.038	0.0071	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Client Sample ID: 2582V2-14-B01

Lab Sample ID: 500-182338-1

Date Collected: 05/20/20 10:55

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	06/01/20 16:31	06/02/20 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		31 - 143	06/01/20 16:31	06/02/20 19:35	1
2-Fluorobiphenyl	52		43 - 145	06/01/20 16:31	06/02/20 19:35	1
2-Fluorophenol	91		31 - 166	06/01/20 16:31	06/02/20 19:35	1
Nitrobenzene-d5	55		37 - 147	06/01/20 16:31	06/02/20 19:35	1
Phenol-d5	77		30 - 153	06/01/20 16:31	06/02/20 19:35	1
Terphenyl-d14	85		42 - 157	06/01/20 16:31	06/02/20 19:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Arsenic	1.5		0.53	0.18	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Barium	13		0.53	0.060	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Beryllium	0.18	J	0.21	0.050	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Boron	1.3	J	2.7	0.25	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Cadmium	<0.11		0.11	0.019	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Calcium	390	B	11	1.8	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Chromium	4.9		0.53	0.26	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Cobalt	1.6		0.27	0.069	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Copper	2.8		0.53	0.15	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Iron	4300		11	5.5	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Lead	1.9		0.27	0.12	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Magnesium	640	B	5.3	2.6	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Manganese	120	B	0.53	0.077	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Nickel	4.9		0.53	0.15	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Potassium	280		27	9.4	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Silver	0.36		0.27	0.068	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Sodium	250		53	7.9	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Vanadium	7.3		0.27	0.063	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1
Zinc	12		1.1	0.47	mg/Kg	☼	05/21/20 18:25	05/22/20 20:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:40	1
Manganese	0.11		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Client Sample ID: 2582V2-14-B01

Lab Sample ID: 500-182338-1

Date Collected: 05/20/20 10:55

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020	J	0.050	0.010	mg/L		05/27/20 06:16	05/27/20 23:43	1
Barium	0.17	J	0.50	0.050	mg/L		05/27/20 06:16	05/27/20 23:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 23:43	1
Boron	0.068	J	0.10	0.050	mg/L		05/27/20 06:16	05/27/20 23:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 23:43	1
Calcium	3.4		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:43	1
Chromium	0.047		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:43	1
Cobalt	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:43	1
Iron	39		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 09:52	1
Lead	0.019		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 23:43	1
Manganese	0.62		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:43	1
Nickel	0.040		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:43	1
Potassium	4.9		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:43	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 23:43	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:43	1
Zinc	0.13	J	0.50	0.020	mg/L		05/27/20 06:16	05/27/20 23:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 11:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0062	mg/Kg	☼	05/28/20 14:00	05/29/20 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.25	mg/Kg	☼	06/01/20 13:00	06/01/20 16:01	1
pH	8.1		0.2	0.2	SU			05/22/20 13:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Client Sample ID: 2582V2-14-B02

Lab Sample ID: 500-182338-2

Date Collected: 05/20/20 11:10

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.4

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	0.00065	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Bromomethane	<0.0048 *		0.0048	0.0018	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	05/20/20 17:38	05/26/20 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/20/20 17:38	05/26/20 20:13	1
4-Bromofluorobenzene (Surr)	97		75 - 131	05/20/20 17:38	05/26/20 20:13	1
Dibromofluoromethane	95		75 - 126	05/20/20 17:38	05/26/20 20:13	1
Toluene-d8 (Surr)	89		75 - 124	05/20/20 17:38	05/26/20 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Client Sample ID: 2582V2-14-B02

Lab Sample ID: 500-182338-2

Date Collected: 05/20/20 11:10

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Anthracene	0.036	J	0.038	0.0064	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Benzo[a]anthracene	0.0052	J	0.038	0.0051	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Fluoranthene	0.044		0.038	0.0071	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Client Sample ID: 2582V2-14-B02

Lab Sample ID: 500-182338-2

Date Collected: 05/20/20 11:10

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Phenanthrene	0.036	J	0.038	0.0053	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	06/01/20 16:31	06/02/20 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		31 - 143				06/01/20 16:31	06/02/20 20:05	1
2-Fluorobiphenyl	64		43 - 145				06/01/20 16:31	06/02/20 20:05	1
2-Fluorophenol	96		31 - 166				06/01/20 16:31	06/02/20 20:05	1
Nitrobenzene-d5	69		37 - 147				06/01/20 16:31	06/02/20 20:05	1
Phenol-d5	87		30 - 153				06/01/20 16:31	06/02/20 20:05	1
Terphenyl-d14	95		42 - 157				06/01/20 16:31	06/02/20 20:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.1	0.22	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Arsenic	1.8		0.57	0.20	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Barium	5.4		0.57	0.065	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Beryllium	0.14	J	0.23	0.054	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Boron	2.1	J	2.9	0.27	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Cadmium	0.079	J B	0.11	0.021	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Calcium	29000	B	11	1.9	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Chromium	3.3		0.57	0.28	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Cobalt	1.3		0.29	0.075	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Copper	4.1		0.57	0.16	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Iron	4100		11	6.0	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Lead	2.2		0.29	0.13	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Magnesium	18000	B	5.7	2.8	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Manganese	100	B	0.57	0.083	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Nickel	3.6		0.57	0.17	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Potassium	250		29	10	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Silver	0.19	J	0.29	0.074	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Sodium	180		57	8.5	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Vanadium	7.6		0.29	0.068	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1
Zinc	11		1.1	0.50	mg/Kg	☼	05/21/20 18:25	05/22/20 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 23:47	1
Barium	<0.50		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 23:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 23:47	1
Boron	<0.10		0.10	0.050	mg/L		05/27/20 06:16	05/27/20 23:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Client Sample ID: 2582V2-14-B02

Lab Sample ID: 500-182338-2

Date Collected: 05/20/20 11:10

Matrix: Solid

Date Received: 05/20/20 14:05

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 23:47	1
Calcium	3.6		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:47	1
Chromium	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:47	1
Cobalt	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:47	1
Iron	1.8	F1	0.40	0.20	mg/L		05/28/20 16:38	05/29/20 09:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 23:47	1
Manganese	0.028		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:47	1
Nickel	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:47	1
Potassium	0.53	J	2.5	0.50	mg/L		05/27/20 06:16	05/27/20 23:47	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 23:47	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 23:47	1
Zinc	<0.50		0.50	0.020	mg/L		05/27/20 06:16	05/27/20 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 09:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0059	mg/Kg	☼	05/28/20 14:00	05/29/20 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	☼	06/01/20 13:00	06/01/20 16:01	1
pH	7.6		0.2	0.2	SU			05/22/20 13:24	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182338-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182268-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 10:39:18 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182268-1

Client Sample ID: 2582V2-14-B03

Lab Sample ID: 500-182268-1

Date Collected: 05/19/20 13:10

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Bromomethane	<0.0045 *		0.0045	0.0017	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Chloromethane	<0.0045 *		0.0045	0.0018	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	05/20/20 17:38	05/22/20 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/20/20 17:38	05/22/20 18:10	1
4-Bromofluorobenzene (Surr)	98		75 - 131	05/20/20 17:38	05/22/20 18:10	1
Dibromofluoromethane	98		75 - 126	05/20/20 17:38	05/22/20 18:10	1
Toluene-d8 (Surr)	90		75 - 124	05/20/20 17:38	05/22/20 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Client Sample ID: 2582V2-14-B03

Lab Sample ID: 500-182268-1

Date Collected: 05/19/20 13:10

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Anthracene	<0.040		0.040	0.0066	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Benzo[b]fluoranthene	0.013	J	0.040	0.0086	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Fluoranthene	0.011	J	0.040	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Client Sample ID: 2582V2-14-B03

Lab Sample ID: 500-182268-1

Date Collected: 05/19/20 13:10

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Phenanthrene	<0.040		0.040	0.0055	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1
Pyrene	0.0097	J	0.040	0.0079	mg/Kg	☼	05/26/20 18:39	05/27/20 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143	05/26/20 18:39	05/27/20 18:40	1
2-Fluorobiphenyl	79		43 - 145	05/26/20 18:39	05/27/20 18:40	1
2-Fluorophenol	101		31 - 166	05/26/20 18:39	05/27/20 18:40	1
Nitrobenzene-d5	71		37 - 147	05/26/20 18:39	05/27/20 18:40	1
Phenol-d5	92		30 - 153	05/26/20 18:39	05/27/20 18:40	1
Terphenyl-d14	93		42 - 157	05/26/20 18:39	05/27/20 18:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J F1	1.2	0.22	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Arsenic	5.4		0.58	0.20	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Barium	54		0.58	0.066	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Beryllium	0.62		0.23	0.054	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Boron	3.3	F1	2.9	0.27	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Calcium	1700	F1 B	12	2.0	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Chromium	17		0.58	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Cobalt	4.1		0.29	0.076	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Copper	12		0.58	0.16	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Iron	16000		12	6.0	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Lead	9.8		0.29	0.13	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Magnesium	2500	B	5.8	2.9	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Manganese	140	F2 B	0.58	0.084	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Nickel	15		0.58	0.17	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Potassium	1200	F1	29	10	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Silver	0.85		0.29	0.075	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Sodium	95		58	8.6	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Vanadium	30		0.29	0.068	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	1
Zinc	37		1.2	0.51	mg/Kg	☼	05/21/20 18:25	05/22/20 19:12	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		05/28/20 05:59	05/28/20 19:49	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:49	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Client Sample ID: 2582V2-14-B03

Lab Sample ID: 500-182268-1

Date Collected: 05/19/20 13:10

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:49	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.034	J	0.050	0.010	mg/L		05/27/20 06:16	05/27/20 22:27	1
Barium	0.53		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 22:27	1
Beryllium	0.0054		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 22:27	1
Boron	0.094	J	0.10	0.050	mg/L		05/27/20 06:16	05/27/20 22:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 22:27	1
Calcium	18		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:27	1
Chromium	0.16		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:27	1
Cobalt	0.019	J	0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:27	1
Iron	120		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 08:28	1
Lead	0.050		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 22:27	1
Manganese	0.48		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:27	1
Nickel	0.12		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:27	1
Potassium	17		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:27	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 22:27	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:27	1
Zinc	0.34	J	0.50	0.020	mg/L		05/27/20 06:16	05/27/20 22:27	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		05/28/20 05:59	05/29/20 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:27	1
Thallium	0.0022		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:27	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		05/28/20 10:05	05/29/20 08:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.020	0.0066	mg/Kg	☼	05/28/20 14:00	05/29/20 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.44		0.44	0.22	mg/Kg	☼	06/01/20 13:00	06/01/20 16:00	1
pH	6.6		0.2	0.2	SU			05/22/20 12:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Client Sample ID: 2582V2-14-B04

Lab Sample ID: 500-182268-2

Date Collected: 05/19/20 13:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Bromomethane	<0.0048 *		0.0048	0.0018	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Chloromethane	<0.0048 *		0.0048	0.0019	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	05/20/20 17:38	05/22/20 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/20/20 17:38	05/22/20 18:36	1
4-Bromofluorobenzene (Surr)	98		75 - 131	05/20/20 17:38	05/22/20 18:36	1
Dibromofluoromethane	94		75 - 126	05/20/20 17:38	05/22/20 18:36	1
Toluene-d8 (Surr)	90		75 - 124	05/20/20 17:38	05/22/20 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Client Sample ID: 2582V2-14-B04

Lab Sample ID: 500-182268-2

Date Collected: 05/19/20 13:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Client Sample ID: 2582V2-14-B04

Lab Sample ID: 500-182268-2

Date Collected: 05/19/20 13:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	05/26/20 18:39	05/27/20 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	100		31 - 143				05/26/20 18:39	05/27/20 19:08	1
2-Fluorobiphenyl	78		43 - 145				05/26/20 18:39	05/27/20 19:08	1
2-Fluorophenol	97		31 - 166				05/26/20 18:39	05/27/20 19:08	1
Nitrobenzene-d5	76		37 - 147				05/26/20 18:39	05/27/20 19:08	1
Phenol-d5	107		30 - 153				05/26/20 18:39	05/27/20 19:08	1
Terphenyl-d14	105		42 - 157				05/26/20 18:39	05/27/20 19:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.86	J	1.2	0.23	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Arsenic	6.4		0.60	0.20	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Barium	88		0.60	0.068	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Beryllium	0.69		0.24	0.056	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Boron	3.3		3.0	0.28	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Calcium	2200	B	12	2.0	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Chromium	20		0.60	0.29	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Cobalt	6.3		0.30	0.078	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Copper	13		0.60	0.17	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Iron	21000		12	6.2	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Lead	11		0.30	0.14	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Magnesium	2700	B	6.0	3.0	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Manganese	180	B	0.60	0.086	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Nickel	14		0.60	0.17	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Potassium	1100		30	11	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Silver	0.96		0.30	0.077	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Sodium	980		60	8.8	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Vanadium	36		0.30	0.070	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	1
Zinc	46		1.2	0.52	mg/Kg	☼	05/21/20 18:25	05/22/20 19:56	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		05/28/20 05:59	05/28/20 19:52	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:52	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Client Sample ID: 2582V2-14-B04

Lab Sample ID: 500-182268-2

Date Collected: 05/19/20 13:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.60		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:52	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:52	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		05/27/20 06:16	05/27/20 22:31	1
Barium	1.1		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 22:31	1
Beryllium	0.0074		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 22:31	1
Boron	0.10		0.10	0.050	mg/L		05/27/20 06:16	05/27/20 22:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 22:31	1
Calcium	34		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:31	1
Chromium	0.25		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:31	1
Cobalt	0.033		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:31	1
Iron	170		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 08:41	1
Lead	0.081		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 22:31	1
Manganese	0.92		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:31	1
Nickel	0.16		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:31	1
Potassium	14		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:31	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 22:31	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:31	1
Zinc	0.68		0.50	0.020	mg/L		05/27/20 06:16	05/27/20 22:31	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		05/28/20 05:59	05/29/20 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:28	1
Thallium	0.0042		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00055		0.00033	0.00033	mg/L		05/28/20 10:05	05/29/20 08:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	0.0067	mg/Kg	☼	05/28/20 14:00	05/29/20 07:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	06/01/20 13:00	06/01/20 16:00	1
pH	6.6		0.2	0.2	SU			05/22/20 12:52	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
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
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182268-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

500-182268

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>AE7-035A</u> Project No.: <u>PTB/WO:184-006/035A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>R. Senou</u>	COC No.: _____ of _____ Lab Job No.: _____ Sample Temp: <u>23.39</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.

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



500-182268 COC

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
	2670U-14-B03	5/19	1310	S	X	X					X	X	X	X	X		
	2670U-14-B04	5/19	1300	S	X	X					X	X	X	X	X		
1	2670U-14-B03	5/19	1310	S	X	X					X	X	X	X	X		
2	2670U-14-B04	5/19	1300	S	X	X					X	X	X	X	X		
3	Trip Blank #2	5/19			X												

Relinquished by: <u>Mut L</u>	Date/Time: <u>5/19 1635</u>	Received by: <u>Paul Buckley</u>	Date/Time: <u>5/19/201635</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
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: FAP 335 (IL 176) Office Phone Number, if available: _____

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

1625 IL 176

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27858 Longitude: - 88.22847
(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.): 317

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS 2582V2-15-B01 AND 2582V2-15-B02 WERE SAMPLED ADJACENT TO SITE 2582V2-15. SEE TABLE 3I 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 NUMBERS: 500-182195-1 AND 500-182267-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-15

Residence Pub

Sample ID	2582V2-15-B01	2582V2-15-B02	2582V2-15-B02 DUP	Maximum Allowable Concentration							
				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 Depth (ft)	0-6	0-6	0-6								
Sample Date	5/18/2020	5/19/2020	5/19/2020								
PID	0	0	0								
Sample pH	8.6	8.8	8.8								
Matrix	Soil	Soil	Soil								
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	0.093	1,2	ND	ND			0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182195-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/2/2020 3:11:08 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182195-1

Client Sample ID: 2582V2-15-B01

Lab Sample ID: 500-182195-1

Date Collected: 05/18/20 15:00

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
2-Butanone (MEK)	0.0085		0.0048	0.0021	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Acetone	0.095		0.019	0.0084	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1
Xylenes, Total	<0.0038		0.0038	0.00062	mg/Kg	☼	05/19/20 18:19	05/20/20 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	05/19/20 18:19	05/20/20 19:24	1
4-Bromofluorobenzene (Surr)	94		75 - 131	05/19/20 18:19	05/20/20 19:24	1
Dibromofluoromethane	92		75 - 126	05/19/20 18:19	05/20/20 19:24	1
Toluene-d8 (Surr)	102		75 - 124	05/19/20 18:19	05/20/20 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182195-1

Client Sample ID: 2582V2-15-B01

Lab Sample ID: 500-182195-1

Date Collected: 05/18/20 15:00

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Anthracene	0.0094	J	0.039	0.0065	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Benzo[a]anthracene	0.057		0.039	0.0053	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Benzo[a]pyrene	0.093		0.039	0.0076	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Benzo[b]fluoranthene	0.13		0.039	0.0084	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Benzo[g,h,i]perylene	0.042		0.039	0.013	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Benzo[k]fluoranthene	0.051		0.039	0.012	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Bis(2-ethylhexyl) phthalate	0.093	J	0.20	0.071	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Chrysene	0.079		0.039	0.011	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Dibenz(a,h)anthracene	0.0096	J	0.039	0.0075	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Fluoranthene	0.17		0.039	0.0072	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182195-1

Client Sample ID: 2582V2-15-B01

Lab Sample ID: 500-182195-1

Date Collected: 05/18/20 15:00

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.039		0.039	0.010	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Phenanthrene	0.057		0.039	0.0054	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Pyrene	0.14		0.039	0.0078	mg/Kg	☼	05/27/20 16:04	05/28/20 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	87		31 - 143				05/27/20 16:04	05/28/20 17:00	1
2-Fluorobiphenyl	85		43 - 145				05/27/20 16:04	05/28/20 17:00	1
2-Fluorophenol	88		31 - 166				05/27/20 16:04	05/28/20 17:00	1
Nitrobenzene-d5	67		37 - 147				05/27/20 16:04	05/28/20 17:00	1
Phenol-d5	96		30 - 153				05/27/20 16:04	05/28/20 17:00	1
Terphenyl-d14	102		42 - 157				05/27/20 16:04	05/28/20 17:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J F1	1.2	0.23	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Arsenic	4.9		0.59	0.20	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Barium	71		0.59	0.067	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Beryllium	0.60		0.23	0.055	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Boron	7.0	F1	2.9	0.27	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Cadmium	0.16	B	0.12	0.021	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Calcium	31000	B	12	2.0	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Chromium	14		0.59	0.29	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Cobalt	7.8		0.29	0.077	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Copper	16		0.59	0.16	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Iron	14000		12	6.1	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Lead	32		0.29	0.14	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Magnesium	16000		5.9	2.9	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Manganese	340		0.59	0.085	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Nickel	20		0.59	0.17	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Potassium	1400	F1	29	10	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Selenium	<0.59	F1	0.59	0.34	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Silver	0.89		0.29	0.076	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Sodium	1300	B	59	8.7	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Vanadium	29		0.29	0.069	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1
Zinc	48		1.2	0.51	mg/Kg	☼	05/19/20 17:35	05/20/20 08:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 19:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 19:48	1
Chromium	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:48	1
Iron	0.24	J	0.40	0.20	mg/L		05/27/20 06:16	05/27/20 19:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182195-1

Client Sample ID: 2582V2-15-B01

Lab Sample ID: 500-182195-1

Date Collected: 05/18/20 15:00

Matrix: Solid

Date Received: 05/18/20 17:35

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 19:48	1
Manganese	7.0		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:48	1
Nickel	0.015	J	0.025	0.010	mg/L		05/27/20 06:16	05/27/20 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 21:53	1
Barium	0.85	F1	0.50	0.050	mg/L		05/27/20 06:16	05/27/20 21:53	1
Beryllium	0.0074		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 21:53	1
Boron	0.11		0.10	0.050	mg/L		05/27/20 06:16	05/27/20 21:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 21:53	1
Calcium	40	F1	2.5	0.50	mg/L		05/27/20 06:16	05/27/20 21:53	1
Chromium	0.17		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:53	1
Cobalt	0.049		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:53	1
Iron	150		0.40	0.20	mg/L		05/27/20 06:16	05/27/20 21:53	1
Lead	0.20	F1	0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 21:53	1
Manganese	1.1	F1	0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:53	1
Nickel	0.15		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:53	1
Potassium	18	F1	2.5	0.50	mg/L		05/27/20 06:16	05/27/20 21:53	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 21:53	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 21:53	1
Zinc	0.42	J	0.50	0.020	mg/L		05/27/20 06:16	05/27/20 21:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 13:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/29/20 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00050		0.00050	0.00050	mg/L		05/27/20 09:30	05/28/20 09:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0062	mg/Kg	☼	05/20/20 13:30	05/21/20 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.23	mg/Kg	☼	05/29/20 10:10	05/29/20 14:09	1
pH	8.6		0.2	0.2	SU			05/20/20 17:18	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182195-1

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.
E	Result exceeded calibration range.
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. The data are considered valid because the absolute difference is less than the RL.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182195-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182267-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 10:32:43 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182267-1

Client Sample ID: 2582V2-15-B02

Lab Sample ID: 500-182267-1

Date Collected: 05/19/20 13:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00048	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00045	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00061	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
1,1-Dichloroethane	<0.0014		0.0014	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
1,1-Dichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0011	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Acetone	0.0070	J	0.014	0.0062	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Benzene	<0.0014		0.0014	0.00036	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Bromoform	<0.0014		0.0014	0.00042	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Bromomethane	<0.0036	*	0.0036	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Carbon disulfide	<0.0036		0.0036	0.00074	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Carbon tetrachloride	<0.0014		0.0014	0.00041	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Chlorobenzene	<0.0014		0.0014	0.00053	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Chloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Chloroform	<0.0014		0.0014	0.00049	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Chloromethane	<0.0036		0.0036	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00040	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00043	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Dibromochloromethane	<0.0014		0.0014	0.00047	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Ethylbenzene	<0.0014		0.0014	0.00068	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00042	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Styrene	<0.0014		0.0014	0.00043	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Tetrachloroethene	<0.0014		0.0014	0.00048	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Toluene	<0.0014		0.0014	0.00036	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00063	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00050	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Trichloroethene	<0.0014		0.0014	0.00048	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Vinyl chloride	<0.0014		0.0014	0.00063	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1
Xylenes, Total	0.00076	J	0.0028	0.00046	mg/Kg	☼	05/20/20 17:38	05/26/20 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	05/20/20 17:38	05/26/20 18:02	1
4-Bromofluorobenzene (Surr)	96		75 - 131	05/20/20 17:38	05/26/20 18:02	1
Dibromofluoromethane	93		75 - 126	05/20/20 17:38	05/26/20 18:02	1
Toluene-d8 (Surr)	90		75 - 124	05/20/20 17:38	05/26/20 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Client Sample ID: 2582V2-15-B02

Lab Sample ID: 500-182267-1

Date Collected: 05/19/20 13:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Client Sample ID: 2582V2-15-B02

Lab Sample ID: 500-182267-1

Date Collected: 05/19/20 13:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
N-Nitrosodiphenylamine	<0.18 *		0.18	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		31 - 143	05/26/20 18:39	05/27/20 15:28	1
2-Fluorobiphenyl	67		43 - 145	05/26/20 18:39	05/27/20 15:28	1
2-Fluorophenol	69		31 - 166	05/26/20 18:39	05/27/20 15:28	1
Nitrobenzene-d5	56		37 - 147	05/26/20 18:39	05/27/20 15:28	1
Phenol-d5	84		30 - 153	05/26/20 18:39	05/27/20 15:28	1
Terphenyl-d14	92		42 - 157	05/26/20 18:39	05/27/20 15:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J F2 F1	1.1	0.21	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Arsenic	3.5		0.54	0.19	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Barium	26		0.54	0.062	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Beryllium	0.32		0.22	0.051	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Boron	4.8		2.7	0.25	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Cadmium	0.048	J B	0.11	0.020	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Calcium	75000		110	18	mg/Kg	☼	05/22/20 06:57	05/22/20 21:39	10
Chromium	7.2		0.54	0.27	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Cobalt	3.8		0.27	0.071	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Copper	10		0.54	0.15	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Iron	11000		110	57	mg/Kg	☼	05/22/20 06:57	05/22/20 21:39	10
Lead	5.4		0.27	0.13	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Magnesium	41000		54	27	mg/Kg	☼	05/22/20 06:57	05/22/20 21:39	10
Manganese	230		0.54	0.079	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Nickel	9.6		0.54	0.16	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Potassium	800	F1	27	9.6	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Selenium	<0.54	F1	0.54	0.32	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Silver	0.45		0.27	0.070	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Sodium	690		54	8.0	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Vanadium	15		0.27	0.064	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1
Zinc	25		1.1	0.48	mg/Kg	☼	05/22/20 06:57	05/22/20 18:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 19:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 19:37	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:37	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Client Sample ID: 2582V2-15-B02

Lab Sample ID: 500-182267-1

Date Collected: 05/19/20 13:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:37	1
Manganese	3.8		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:37	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.053		0.050	0.010	mg/L		05/27/20 06:16	05/27/20 22:19	1
Barium	0.60		0.50	0.050	mg/L		05/27/20 06:16	05/27/20 22:19	1
Beryllium	0.0066		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 22:19	1
Boron	0.096	J	0.10	0.050	mg/L		05/27/20 06:16	05/27/20 22:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 22:19	1
Calcium	25		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:19	1
Chromium	0.14		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:19	1
Cobalt	0.037		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:19	1
Iron	120		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 08:19	1
Lead	0.079		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 22:19	1
Manganese	1.1		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:19	1
Nickel	0.12		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:19	1
Potassium	16		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:19	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 22:19	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:19	1
Zinc	0.33	J	0.50	0.020	mg/L		05/27/20 06:16	05/27/20 22:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:25	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		05/28/20 10:05	05/29/20 08:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0059	mg/Kg	☼	05/27/20 13:30	05/28/20 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.23	mg/Kg	☼	06/01/20 13:00	06/01/20 15:59	1
pH	8.8		0.2	0.2	SU			05/20/20 18:17	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Client Sample ID: 2582V2-15-B02 Dup

Lab Sample ID: 500-182267-2

Date Collected: 05/19/20 13:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Bromomethane	<0.0045 *		0.0045	0.0017	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1
Xylenes, Total	0.0011 J		0.0036	0.00058	mg/Kg	☼	05/20/20 17:38	05/26/20 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	05/20/20 17:38	05/26/20 18:28	1
4-Bromofluorobenzene (Surr)	98		75 - 131	05/20/20 17:38	05/26/20 18:28	1
Dibromofluoromethane	92		75 - 126	05/20/20 17:38	05/26/20 18:28	1
Toluene-d8 (Surr)	91		75 - 124	05/20/20 17:38	05/26/20 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Client Sample ID: 2582V2-15-B02 Dup

Lab Sample ID: 500-182267-2

Date Collected: 05/19/20 13:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Bis(2-chloroethyl)ether	<0.18	F1	0.18	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Hexachlorocyclopentadiene	<0.73	F1	0.73	0.21	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Client Sample ID: 2582V2-15-B02 Dup

Lab Sample ID: 500-182267-2

Date Collected: 05/19/20 13:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
N-Nitrosodiphenylamine	<0.18 *		0.18	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		31 - 143				05/26/20 18:39	05/27/20 15:52	1
2-Fluorobiphenyl	82		43 - 145				05/26/20 18:39	05/27/20 15:52	1
2-Fluorophenol	88		31 - 166				05/26/20 18:39	05/27/20 15:52	1
Nitrobenzene-d5	70		37 - 147				05/26/20 18:39	05/27/20 15:52	1
Phenol-d5	101		30 - 153				05/26/20 18:39	05/27/20 15:52	1
Terphenyl-d14	100		42 - 157				05/26/20 18:39	05/27/20 15:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.1	0.21	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Arsenic	3.8		0.55	0.19	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Barium	24		0.55	0.062	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Beryllium	0.32		0.22	0.051	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Boron	4.9		2.7	0.26	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Cadmium	0.058	J B	0.11	0.020	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Calcium	54000		110	19	mg/Kg	☼	05/22/20 06:57	05/22/20 21:59	10
Chromium	7.8		0.55	0.27	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Cobalt	4.8		0.55	0.14	mg/Kg	☼	05/22/20 06:57	05/26/20 10:22	2
Copper	10		0.55	0.15	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Iron	11000		11	5.7	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Lead	4.9		0.27	0.13	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Magnesium	25000		5.5	2.7	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Manganese	310		0.55	0.079	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Nickel	12		0.55	0.16	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Potassium	700		27	9.7	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Silver	0.49		0.27	0.071	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Sodium	730		55	8.1	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Vanadium	18		0.27	0.065	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1
Zinc	26		1.1	0.48	mg/Kg	☼	05/22/20 06:57	05/22/20 18:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 19:40	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:40	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Client Sample ID: 2582V2-15-B02 Dup

Lab Sample ID: 500-182267-2

Date Collected: 05/19/20 13:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.7		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:40	1

Method: 6010B - 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		05/27/20 06:16	05/27/20 22:23	1
Barium	0.47	J	0.50	0.050	mg/L		05/27/20 06:16	05/27/20 22:23	1
Beryllium	0.0050		0.0040	0.0040	mg/L		05/27/20 06:16	05/27/20 22:23	1
Boron	0.11		0.10	0.050	mg/L		05/27/20 06:16	05/27/20 22:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/27/20 06:16	05/27/20 22:23	1
Calcium	22		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:23	1
Chromium	0.12		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:23	1
Cobalt	0.030		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:23	1
Iron	89		0.40	0.20	mg/L		05/28/20 16:38	05/29/20 08:24	1
Lead	0.060		0.0075	0.0075	mg/L		05/27/20 06:16	05/27/20 22:23	1
Manganese	0.97		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:23	1
Nickel	0.096		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:23	1
Potassium	17		2.5	0.50	mg/L		05/27/20 06:16	05/27/20 22:23	1
Selenium	<0.050		0.050	0.020	mg/L		05/27/20 06:16	05/27/20 22:23	1
Silver	<0.025		0.025	0.010	mg/L		05/27/20 06:16	05/27/20 22:23	1
Zinc	0.28	J	0.50	0.020	mg/L		05/27/20 06:16	05/27/20 22:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/27/20 06:16	05/27/20 12:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/27/20 06:16	05/27/20 12:26	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		05/28/20 10:05	05/29/20 08:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0059	mg/Kg	☼	05/27/20 13:30	05/28/20 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.36		0.36	0.18	mg/Kg	☼	06/01/20 13:00	06/01/20 16:00	1
pH	8.8		0.2	0.2	SU			05/20/20 18:19	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182267-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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 335 (IL 176) Office Phone Number, if available: _____

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

3505-3513 South Wright Road

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27866 Longitude: - 88.22903
(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.): 269

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS 2582V2-16-B01 AND 2582V2-16-B02 WERE SAMPLED ADJACENT TO SITE 2582V2-16. SEE TABLE 3m 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: 500-182259-1.

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:

Aug 3, 2020

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

**ISGS Site 2582V2-16
Commercial Building**

Sample ID	2582V2-16-B01	2582V2-16-B02	Maximum Allowable Concentration				
Sample Depth (ft)	0-6	0-6					
Sample Date	5/19/2020	5/19/2020					
PID	0	0	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 pH	7.5	7.8					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182259-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 10:11:17 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Client Sample ID: 2582V2-16-B01

Lab Sample ID: 500-182259-1

Date Collected: 05/19/20 10:30

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
2-Butanone (MEK)	0.0050		0.0045	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Acetone	0.073		0.018	0.0078	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Bromomethane	<0.0045 *		0.0045	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Chloromethane	<0.0045 *		0.0045	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	05/19/20 18:19	05/22/20 17:18	1
4-Bromofluorobenzene (Surr)	93		75 - 131	05/19/20 18:19	05/22/20 17:18	1
Dibromofluoromethane	100		75 - 126	05/19/20 18:19	05/22/20 17:18	1
Toluene-d8 (Surr)	90		75 - 124	05/19/20 18:19	05/22/20 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Client Sample ID: 2582V2-16-B01

Lab Sample ID: 500-182259-1

Date Collected: 05/19/20 10:30

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Client Sample ID: 2582V2-16-B01

Lab Sample ID: 500-182259-1

Date Collected: 05/19/20 10:30

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	05/26/20 19:48	05/27/20 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		31 - 143				05/26/20 19:48	05/27/20 17:50	1
2-Fluorobiphenyl	90		43 - 145				05/26/20 19:48	05/27/20 17:50	1
2-Fluorophenol	102		31 - 166				05/26/20 19:48	05/27/20 17:50	1
Nitrobenzene-d5	79		37 - 147				05/26/20 19:48	05/27/20 17:50	1
Phenol-d5	111		30 - 153				05/26/20 19:48	05/27/20 17:50	1
Terphenyl-d14	107		42 - 157				05/26/20 19:48	05/27/20 17:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J F1	1.2	0.23	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Arsenic	7.3	F1	0.60	0.20	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Barium	84		0.60	0.068	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Beryllium	0.78		0.24	0.056	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Boron	4.4	F1	3.0	0.28	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Cadmium	<0.12	F1	0.12	0.022	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Calcium	4800		12	2.0	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Chromium	17		0.60	0.30	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Cobalt	9.6		0.30	0.078	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Copper	15		0.60	0.17	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Iron	18000		12	6.2	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Lead	14	F1	0.30	0.14	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Magnesium	4500		6.0	3.0	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Manganese	510		0.60	0.087	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Nickel	22		0.60	0.17	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Potassium	1300	F1	30	11	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Selenium	<0.60	F1	0.60	0.35	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Silver	1.3		0.30	0.077	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Sodium	1100		60	8.9	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Vanadium	31		0.30	0.071	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	1
Zinc	56		1.2	0.53	mg/Kg	☼	05/20/20 17:21	05/21/20 08:06	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		05/28/20 05:59	05/28/20 18:11	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:11	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Client Sample ID: 2582V2-16-B01

Lab Sample ID: 500-182259-1

Date Collected: 05/19/20 10:30

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	6.7		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:11	1
Nickel	0.011	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.047	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 19:41	1
Barium	0.79		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 19:41	1
Beryllium	0.0067		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 19:41	1
Boron	0.10		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 19:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 19:41	1
Calcium	17		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 19:41	1
Chromium	0.18		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:41	1
Cobalt	0.047		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:41	1
Iron	160		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:41	1
Lead	0.073		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:41	1
Manganese	1.9		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:41	1
Nickel	0.15		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:41	1
Potassium	16		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 19:41	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 19:41	1
Silver	0.022	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:41	1
Zinc	0.46	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 19:41	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		05/28/20 05:59	05/29/20 17:28	1
Thallium	0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		05/28/20 10:05	05/29/20 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J B	0.020	0.0067	mg/Kg	☼	05/26/20 13:05	05/27/20 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.26	mg/Kg	☼	06/01/20 13:00	06/01/20 15:58	1
pH	7.5		0.2	0.2	SU			05/20/20 17:48	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Client Sample ID: 2582V2-16-B02

Lab Sample ID: 500-182259-2

Date Collected: 05/19/20 10:35

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.5

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	☼	05/19/20 18:19	05/22/20 17:44	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Acetone	0.061		0.019	0.0082	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Bromomethane	<0.0047 *		0.0047	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Chloromethane	<0.0047 *		0.0047	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	05/19/20 18:19	05/22/20 17:44	1
4-Bromofluorobenzene (Surr)	97		75 - 131	05/19/20 18:19	05/22/20 17:44	1
Dibromofluoromethane	94		75 - 126	05/19/20 18:19	05/22/20 17:44	1
Toluene-d8 (Surr)	91		75 - 124	05/19/20 18:19	05/22/20 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Client Sample ID: 2582V2-16-B02

Lab Sample ID: 500-182259-2

Date Collected: 05/19/20 10:35

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Benzo[a]anthracene	0.013	J	0.039	0.0053	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Benzo[a]pyrene	0.019	J	0.039	0.0076	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Benzo[b]fluoranthene	0.023	J	0.039	0.0085	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Chrysene	0.018	J	0.039	0.011	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Fluoranthene	0.033	J	0.039	0.0073	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Client Sample ID: 2582V2-16-B02

Lab Sample ID: 500-182259-2

Date Collected: 05/19/20 10:35

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Phenanthrene	0.014	J	0.039	0.0055	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Pyrene	0.028	J	0.039	0.0078	mg/Kg	☼	05/26/20 19:48	05/27/20 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		31 - 143				05/26/20 19:48	05/27/20 18:14	1
2-Fluorobiphenyl	85		43 - 145				05/26/20 19:48	05/27/20 18:14	1
2-Fluorophenol	93		31 - 166				05/26/20 19:48	05/27/20 18:14	1
Nitrobenzene-d5	74		37 - 147				05/26/20 19:48	05/27/20 18:14	1
Phenol-d5	101		30 - 153				05/26/20 19:48	05/27/20 18:14	1
Terphenyl-d14	106		42 - 157				05/26/20 19:48	05/27/20 18:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.24	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Arsenic	6.5		0.61	0.21	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Barium	93		0.61	0.069	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Beryllium	0.77		0.24	0.057	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Boron	4.4		3.0	0.28	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Calcium	2100		12	2.1	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Chromium	18		0.61	0.30	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Cobalt	12		0.61	0.16	mg/Kg	☼	05/20/20 17:21	05/22/20 08:10	2
Copper	14		0.61	0.17	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Iron	17000		12	6.3	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Lead	15		0.30	0.14	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Magnesium	2900		6.1	3.0	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Manganese	700		0.61	0.088	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Nickel	23		0.61	0.18	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Potassium	1200		30	11	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Silver	1.3		0.30	0.078	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Sodium	1300		61	9.0	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Vanadium	33		0.30	0.071	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1
Zinc	55		1.2	0.53	mg/Kg	☼	05/20/20 17:21	05/21/20 08:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 18:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 18:14	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:14	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Client Sample ID: 2582V2-16-B02

Lab Sample ID: 500-182259-2

Date Collected: 05/19/20 10:35

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:14	1
Manganese	0.017	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:14	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.076		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 19:45	1
Barium	0.84		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 19:45	1
Beryllium	0.0096		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 19:45	1
Boron	0.095	J	0.10	0.050	mg/L		05/28/20 05:59	05/28/20 19:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 19:45	1
Calcium	20		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 19:45	1
Chromium	0.22		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:45	1
Cobalt	0.040		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:45	1
Iron	210		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 19:45	1
Lead	0.087		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 19:45	1
Manganese	1.7		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:45	1
Nickel	0.18		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:45	1
Potassium	18		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 19:45	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 19:45	1
Silver	0.037		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 19:45	1
Zinc	0.55		0.50	0.020	mg/L		05/28/20 05:59	05/28/20 19:45	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		05/28/20 05:59	06/01/20 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:30	1
Thallium	0.0021		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		05/28/20 10:05	05/29/20 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	B	0.018	0.0060	mg/Kg	☼	05/26/20 13:05	05/27/20 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	☼	06/01/20 13:00	06/01/20 15:58	1
pH	7.8		0.2	0.2	SU			05/20/20 17:51	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182259-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



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 335 (IL 176) Office Phone Number, if available: _____

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

1600 block of IL 176

City: Unincorporated State: IL Zip Code: 60014

County: McHenry Township: Nunda

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

Latitude: 42.27854 Longitude: - 88.22885
(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.): 577

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS 2582V2-19-B01, 2582V2-19-B02, 2582V2-19-B03 AND 2582V2-19-B04 WERE SAMPLED ADJACENT TO SITE 2582V2-19. SEE TABLE 3n 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: 500-182263-1.

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:

Aug 3, 2020

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

ISGS Site 2582V2-19

Bridge and ROW

Sample ID	2582V2-19-B01-1	2582V2-19-B01-2	2582V2-19-B02	2582V2-19-B03-1	Maximum Allowable Concentration				
Sample Depth (ft)	0-5	5-10	0-5	0-5	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	5/19/2020	5/19/2020	5/19/2020	5/19/2020					
PID	0	0	0	0					
Sample pH	7.8	7.9	8.2	7.7					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

Sample ID	2582V2-19-B03-2	2582V2-19-B04-1	2582V2-19-B04-2	Maximum Allowable Concentration					
Sample Depth (ft)	5-10	0-5	5-10	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	5/19/2020	5/19/2020	5/19/2020						
PID	0	0	0						
Sample pH	8.2	8	6.4						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

ANALYTICAL REPORT

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

Laboratory Job ID: 500-182263-1
Client Project/Site: IDOT - AE7-035

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
6/4/2020 10:23:36 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B01-1

Lab Sample ID: 500-182263-1

Date Collected: 05/19/20 11:15

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Acetone	0.078		0.019	0.0082	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Bromomethane	<0.0047 *		0.0047	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Chloroethane	<0.0047 *		0.0047	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	05/19/20 18:19	05/22/20 12:26	1
4-Bromofluorobenzene (Surr)	96		75 - 131	05/19/20 18:19	05/22/20 12:26	1
Dibromofluoromethane	101		75 - 126	05/19/20 18:19	05/22/20 12:26	1
Toluene-d8 (Surr)	95		75 - 124	05/19/20 18:19	05/22/20 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B01-1

Lab Sample ID: 500-182263-1

Date Collected: 05/19/20 11:15

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B01-1

Lab Sample ID: 500-182263-1

Date Collected: 05/19/20 11:15

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
N-Nitrosodiphenylamine	<0.21 *		0.21	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	05/26/20 18:39	05/27/20 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	104		31 - 143				05/26/20 18:39	05/27/20 16:36	1
2-Fluorobiphenyl	76		43 - 145				05/26/20 18:39	05/27/20 16:36	1
2-Fluorophenol	86		31 - 166				05/26/20 18:39	05/27/20 16:36	1
Nitrobenzene-d5	71		37 - 147				05/26/20 18:39	05/27/20 16:36	1
Phenol-d5	85		30 - 153				05/26/20 18:39	05/27/20 16:36	1
Terphenyl-d14	111		42 - 157				05/26/20 18:39	05/27/20 16:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Arsenic	5.4		0.58	0.20	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Barium	24		0.58	0.066	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Beryllium	0.26		0.23	0.054	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Boron	3.7		2.9	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Cadmium	0.27 B		0.12	0.021	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Calcium	25000 B		12	2.0	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Chromium	6.2 B		0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Cobalt	5.9		0.29	0.076	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Copper	9.4		0.58	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Iron	8200		12	6.0	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Lead	3.7		0.29	0.13	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Magnesium	16000		5.8	2.9	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Manganese	300 B		0.58	0.084	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Nickel	12		0.58	0.17	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Potassium	570		29	10	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Silver	0.47		0.29	0.075	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Sodium	340 B		58	8.6	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Vanadium	18		0.29	0.068	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	1
Zinc	19		1.2	0.51	mg/Kg	☼	05/21/20 18:19	05/22/20 11:21	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		05/28/20 05:59	05/28/20 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:41	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B01-1

Lab Sample ID: 500-182263-1

Date Collected: 05/19/20 11:15

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.048	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:20	1
Barium	0.70		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:20	1
Beryllium	0.0076		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:20	1
Boron	0.11		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:20	1
Calcium	21		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:20	1
Chromium	0.19		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:20	1
Cobalt	0.028		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:20	1
Iron	170		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:20	1
Lead	0.036		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:20	1
Manganese	0.87		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:20	1
Nickel	0.14		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:20	1
Potassium	16		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:20	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:20	1
Silver	0.019	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:20	1
Zinc	0.54		0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:20	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		05/28/20 05:59	06/01/20 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:49	1
Thallium	0.0021		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		05/28/20 10:05	05/29/20 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.021	0.0068	mg/Kg	☼	05/27/20 13:30	05/28/20 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.29	mg/Kg	☼	06/01/20 09:30	06/01/20 15:43	1
pH	7.8		0.2	0.2	SU			05/22/20 12:29	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B01-2

Lab Sample ID: 500-182263-2

Date Collected: 05/19/20 11:20

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Acetone	0.014	J	0.018	0.0076	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Bromomethane	<0.0044	*	0.0044	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Chloroethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1
Xylenes, Total	0.00078	J	0.0035	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	05/19/20 18:19	05/22/20 12:51	1
4-Bromofluorobenzene (Surr)	99		75 - 131	05/19/20 18:19	05/22/20 12:51	1
Dibromofluoromethane	96		75 - 126	05/19/20 18:19	05/22/20 12:51	1
Toluene-d8 (Surr)	97		75 - 124	05/19/20 18:19	05/22/20 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B01-2

Lab Sample ID: 500-182263-2

Date Collected: 05/19/20 11:20

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B01-2

Lab Sample ID: 500-182263-2

Date Collected: 05/19/20 11:20

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
N-Nitrosodiphenylamine	<0.19 *		0.19	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	113		31 - 143				05/26/20 18:39	05/27/20 17:02	1
2-Fluorobiphenyl	73		43 - 145				05/26/20 18:39	05/27/20 17:02	1
2-Fluorophenol	77		31 - 166				05/26/20 18:39	05/27/20 17:02	1
Nitrobenzene-d5	63		37 - 147				05/26/20 18:39	05/27/20 17:02	1
Phenol-d5	77		30 - 153				05/26/20 18:39	05/27/20 17:02	1
Terphenyl-d14	111		42 - 157				05/26/20 18:39	05/27/20 17:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.2	0.23	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Arsenic	6.9		0.58	0.20	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Barium	100		0.58	0.067	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Beryllium	0.79		0.23	0.055	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Boron	4.3		2.9	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Cadmium	0.026	J B	0.12	0.021	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Calcium	2700	B	12	2.0	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Chromium	20	B	0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Cobalt	13		0.29	0.077	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Copper	16		0.58	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Iron	19000		12	6.1	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Lead	13		0.29	0.14	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Magnesium	3700		5.8	2.9	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Manganese	570	B	0.58	0.085	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Nickel	30		0.58	0.17	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Potassium	1300		29	10	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Silver	1.5		0.29	0.075	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Sodium	990	B	58	8.7	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Vanadium	34		0.29	0.069	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1
Zinc	47		1.2	0.51	mg/Kg	☼	05/21/20 18:19	05/22/20 11:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:44	1
Manganese	5.4		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B01-2

Lab Sample ID: 500-182263-2

Date Collected: 05/19/20 11:20

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	J	0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:24	1
Barium	0.17	J	0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:24	1
Boron	0.067	J	0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:24	1
Calcium	6.5		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:24	1
Chromium	0.032		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:24	1
Cobalt	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:24	1
Iron	33		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:24	1
Lead	0.015		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:24	1
Manganese	0.51		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:24	1
Nickel	0.030		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:24	1
Potassium	5.5		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:24	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:24	1
Silver	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:24	1
Zinc	0.083	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:24	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		05/28/20 05:59	05/29/20 17:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0071	J	0.018	0.0059	mg/Kg	☼	05/27/20 13:30	05/28/20 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.40		0.40	0.20	mg/Kg	☼	06/01/20 09:30	06/01/20 15:43	1
pH	7.9		0.2	0.2	SU			05/22/20 12:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B02

Lab Sample ID: 500-182263-3

Date Collected: 05/19/20 11:10

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Bromomethane	<0.0040	*	0.0040	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1
Xylenes, Total	0.00054	J	0.0032	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	05/19/20 18:19	05/22/20 13:17	1
4-Bromofluorobenzene (Surr)	99		75 - 131	05/19/20 18:19	05/22/20 13:17	1
Dibromofluoromethane	98		75 - 126	05/19/20 18:19	05/22/20 13:17	1
Toluene-d8 (Surr)	95		75 - 124	05/19/20 18:19	05/22/20 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B02

Lab Sample ID: 500-182263-3

Date Collected: 05/19/20 11:10

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2-Methylnaphthalene	0.0076	J	0.078	0.0071	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Benzo[a]anthracene	0.026	J	0.039	0.0052	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Benzo[a]pyrene	0.044		0.039	0.0075	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Benzo[b]fluoranthene	0.051		0.039	0.0084	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Benzo[g,h,i]perylene	0.022	J	0.039	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Benzo[k]fluoranthene	0.022	J	0.039	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Chrysene	0.036	J	0.039	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Dibenz(a,h)anthracene	0.011	J	0.039	0.0075	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Fluoranthene	0.050		0.039	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B02

Lab Sample ID: 500-182263-3

Date Collected: 05/19/20 11:10

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.022	J	0.039	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Phenanthrene	0.024	J	0.039	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Pyrene	0.045		0.039	0.0077	mg/Kg	☼	05/26/20 18:39	05/27/20 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		31 - 143				05/26/20 18:39	05/27/20 19:15	1
2-Fluorobiphenyl	74		43 - 145				05/26/20 18:39	05/27/20 19:15	1
2-Fluorophenol	76		31 - 166				05/26/20 18:39	05/27/20 19:15	1
Nitrobenzene-d5	63		37 - 147				05/26/20 18:39	05/27/20 19:15	1
Phenol-d5	75		30 - 153				05/26/20 18:39	05/27/20 19:15	1
Terphenyl-d14	97		42 - 157				05/26/20 18:39	05/27/20 19:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.1	0.21	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Arsenic	5.5		0.55	0.19	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Barium	57		0.55	0.063	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Beryllium	0.55		0.22	0.051	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Boron	4.1		2.8	0.26	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Cadmium	0.072	J B	0.11	0.020	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Calcium	14000	B	11	1.9	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Chromium	14	B	0.55	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Cobalt	8.7		0.55	0.14	mg/Kg	☼	05/21/20 18:19	05/22/20 19:58	2
Copper	13		0.55	0.15	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Iron	14000		11	5.7	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Lead	14		0.28	0.13	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Magnesium	8600		5.5	2.7	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Manganese	480	B	0.55	0.080	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Nickel	18		0.55	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Potassium	1000		28	9.7	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Silver	1.0		0.28	0.071	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Sodium	1700	B	55	8.1	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Vanadium	27		0.28	0.065	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1
Zinc	42		1.1	0.48	mg/Kg	☼	05/21/20 18:19	05/22/20 11:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:47	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B02

Lab Sample ID: 500-182263-3

Date Collected: 05/19/20 11:10

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:47	1
Manganese	1.2		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:47	1
Nickel	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:28	1
Barium	0.77		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:28	1
Beryllium	0.0087		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:28	1
Boron	0.20		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:28	1
Calcium	36		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:28	1
Chromium	0.19		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:28	1
Cobalt	0.046		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:28	1
Iron	160		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:28	1
Lead	0.13		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:28	1
Manganese	0.97		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:28	1
Nickel	0.21		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:28	1
Potassium	36		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:28	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:28	1
Silver	0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:28	1
Zinc	0.42	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020	^	0.0020	0.0020	mg/L		05/28/20 05:59	06/01/20 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:53	1
Thallium	0.0022		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L		05/28/20 10:05	05/29/20 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0059	mg/Kg	☼	05/27/20 13:30	05/28/20 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.27	mg/Kg	☼	06/01/20 09:30	06/01/20 15:43	1
pH	8.2		0.2	0.2	SU			05/22/20 12:37	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B03-1

Lab Sample ID: 500-182263-4

Date Collected: 05/19/20 10:55

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Acetone	0.050		0.016	0.0068	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Bromomethane	<0.0039 *		0.0039	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Chloroethane	<0.0039 *		0.0039	0.0012	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	05/19/20 18:19	05/22/20 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	05/19/20 18:19	05/22/20 13:43	1
4-Bromofluorobenzene (Surr)	100		75 - 131	05/19/20 18:19	05/22/20 13:43	1
Dibromofluoromethane	95		75 - 126	05/19/20 18:19	05/22/20 13:43	1
Toluene-d8 (Surr)	100		75 - 124	05/19/20 18:19	05/22/20 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B03-1

Lab Sample ID: 500-182263-4

Date Collected: 05/19/20 10:55

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2-Methylnaphthalene	<0.071		0.071	0.0064	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Benzo[a]anthracene	0.011	J	0.035	0.0047	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Benzo[a]pyrene	0.019	J	0.035	0.0068	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Benzo[b]fluoranthene	0.023	J	0.035	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Chrysene	0.013	J	0.035	0.0095	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Fluoranthene	0.017	J	0.035	0.0065	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B03-1

Lab Sample ID: 500-182263-4

Date Collected: 05/19/20 10:55

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
N-Nitrosodiphenylamine	<0.18 *		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Phenanthrene	0.0074	J	0.035	0.0049	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Phenol	<0.18		0.18	0.078	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Pyrene	0.016	J	0.035	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		31 - 143				05/26/20 18:39	05/27/20 19:42	1
2-Fluorobiphenyl	71		43 - 145				05/26/20 18:39	05/27/20 19:42	1
2-Fluorophenol	69		31 - 166				05/26/20 18:39	05/27/20 19:42	1
Nitrobenzene-d5	59		37 - 147				05/26/20 18:39	05/27/20 19:42	1
Phenol-d5	75		30 - 153				05/26/20 18:39	05/27/20 19:42	1
Terphenyl-d14	102		42 - 157				05/26/20 18:39	05/27/20 19:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.21	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Arsenic	6.1		0.53	0.18	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Barium	69		0.53	0.061	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Beryllium	0.63		0.21	0.050	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Boron	4.7		2.7	0.25	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Cadmium	0.057	J B	0.11	0.019	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Calcium	9700	B	11	1.8	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Chromium	16	B	0.53	0.26	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Cobalt	9.9		0.53	0.14	mg/Kg	☼	05/21/20 18:19	05/22/20 20:02	2
Copper	15		0.53	0.15	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Iron	16000		11	5.5	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Lead	12		0.27	0.12	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Magnesium	7400		5.3	2.6	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Manganese	300	B	0.53	0.077	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Nickel	22		0.53	0.15	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Potassium	1300		27	9.4	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Silver	1.1		0.27	0.069	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Sodium	1600	B	53	7.9	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Thallium	<0.53		0.53	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Vanadium	30		0.27	0.063	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	1
Zinc	46		1.1	0.47	mg/Kg	☼	05/21/20 18:19	05/22/20 11:33	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		05/28/20 05:59	05/28/20 18:50	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:50	1
Manganese	1.1		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B03-1

Lab Sample ID: 500-182263-4

Date Collected: 05/19/20 10:55

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 91.3

Method: 6010B - 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		05/28/20 05:59	05/28/20 20:32	1
Barium	0.36	J	0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:32	1
Beryllium	0.0045		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:32	1
Boron	0.13		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:32	1
Calcium	23		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:32	1
Chromium	0.092		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:32	1
Cobalt	0.019	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:32	1
Iron	78		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:32	1
Lead	0.055		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:32	1
Manganese	0.65		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:32	1
Nickel	0.080		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:32	1
Potassium	16		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:32	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:32	1
Silver	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:32	1
Zinc	0.20	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		05/28/20 10:05	05/29/20 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.017	0.0058	mg/Kg	☼	05/27/20 13:30	05/28/20 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.43		0.43	0.22	mg/Kg	☼	06/01/20 09:30	06/01/20 15:44	1
pH	7.7		0.2	0.2	SU			05/22/20 12:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B03-2

Lab Sample ID: 500-182263-5

Date Collected: 05/19/20 11:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
2-Butanone (MEK)	0.0064		0.0050	0.0022	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Acetone	0.095		0.020	0.0088	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Bromomethane	<0.0050	*	0.0050	0.0019	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Carbon disulfide	<0.0050		0.0050	0.0011	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Chloroethane	<0.0050	*	0.0050	0.0015	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	☼	05/19/20 18:19	05/22/20 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	05/19/20 18:19	05/22/20 14:08	1
4-Bromofluorobenzene (Surr)	99		75 - 131	05/19/20 18:19	05/22/20 14:08	1
Dibromofluoromethane	93		75 - 126	05/19/20 18:19	05/22/20 14:08	1
Toluene-d8 (Surr)	100		75 - 124	05/19/20 18:19	05/22/20 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B03-2

Lab Sample ID: 500-182263-5

Date Collected: 05/19/20 11:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B03-2

Lab Sample ID: 500-182263-5

Date Collected: 05/19/20 11:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
N-Nitrosodiphenylamine	<0.19 *		0.19	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	05/26/20 18:39	05/27/20 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	115		31 - 143				05/26/20 18:39	05/27/20 17:29	1
2-Fluorobiphenyl	68		43 - 145				05/26/20 18:39	05/27/20 17:29	1
2-Fluorophenol	71		31 - 166				05/26/20 18:39	05/27/20 17:29	1
Nitrobenzene-d5	58		37 - 147				05/26/20 18:39	05/27/20 17:29	1
Phenol-d5	75		30 - 153				05/26/20 18:39	05/27/20 17:29	1
Terphenyl-d14	101		42 - 157				05/26/20 18:39	05/27/20 17:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.22	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Arsenic	6.3		0.56	0.19	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Barium	47		0.56	0.064	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Beryllium	0.45		0.22	0.052	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Boron	6.5		2.8	0.26	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Cadmium	0.090	J B	0.11	0.020	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Calcium	63000	B	110	19	mg/Kg	☼	05/21/20 18:19	05/22/20 20:06	10
Chromium	10	B	0.56	0.28	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Cobalt	6.0		0.28	0.074	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Copper	12		0.56	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Iron	13000		11	5.8	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Lead	13		0.28	0.13	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Magnesium	27000		5.6	2.8	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Manganese	380	B	0.56	0.081	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Nickel	13		0.56	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Potassium	930		28	9.9	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Silver	0.70		0.28	0.072	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Sodium	500	B	56	8.3	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Vanadium	20		0.28	0.066	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1
Zinc	34		1.1	0.49	mg/Kg	☼	05/21/20 18:19	05/22/20 11:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 18:53	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:53	1
Iron	0.24	J	0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B03-2

Lab Sample ID: 500-182263-5

Date Collected: 05/19/20 11:00

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:53	1
Manganese	9.6		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:53	1
Nickel	0.030		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.081		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:44	1
Barium	0.87		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:44	1
Beryllium	0.0085		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:44	1
Boron	0.11		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:44	1
Calcium	22		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:44	1
Chromium	0.19		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:44	1
Cobalt	0.060		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:44	1
Iron	180		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:44	1
Lead	0.11		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:44	1
Manganese	2.2		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:44	1
Nickel	0.19		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:44	1
Potassium	17		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:44	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:44	1
Silver	0.033		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:44	1
Zinc	0.46	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:44	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		05/28/20 05:59	05/29/20 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		05/28/20 10:05	05/29/20 10:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0061	mg/Kg	☼	05/27/20 13:30	05/28/20 07:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.28	mg/Kg	☼	06/01/20 09:30	06/01/20 15:44	1
pH	8.2		0.2	0.2	SU			05/22/20 12:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B04-1

Lab Sample ID: 500-182263-6

Date Collected: 05/19/20 10:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
1,2-Dichloropropane	<0.0017 *		0.0017	0.00045	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
2-Butanone (MEK)	0.0065		0.0044	0.0019	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Acetone	0.037		0.017	0.0076	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Bromomethane	<0.0044 *		0.0044	0.0016	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Carbon disulfide	<0.0044		0.0044	0.00090	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Chloromethane	<0.0044		0.0044	0.0017	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1
Xylenes, Total	0.00070 J		0.0035	0.00056	mg/Kg	☼	05/19/20 18:19	05/27/20 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	05/19/20 18:19	05/27/20 13:36	1
4-Bromofluorobenzene (Surr)	102		75 - 131	05/19/20 18:19	05/27/20 13:36	1
Dibromofluoromethane	94		75 - 126	05/19/20 18:19	05/27/20 13:36	1
Toluene-d8 (Surr)	90		75 - 124	05/19/20 18:19	05/27/20 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B04-1

Lab Sample ID: 500-182263-6

Date Collected: 05/19/20 10:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2-Methylnaphthalene	<0.074		0.074	0.0067	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Benzo[a]anthracene	0.023	J	0.036	0.0049	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Benzo[a]pyrene	0.042		0.036	0.0071	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Benzo[b]fluoranthene	0.052		0.036	0.0079	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Benzo[g,h,i]perylene	0.026	J	0.036	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Benzo[k]fluoranthene	0.018	J	0.036	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Chrysene	0.032	J	0.036	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Dibenz(a,h)anthracene	0.010	J	0.036	0.0071	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Fluoranthene	0.046		0.036	0.0068	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B04-1

Lab Sample ID: 500-182263-6

Date Collected: 05/19/20 10:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 87.0

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	0.026	J	0.036	0.0095	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
N-Nitrosodiphenylamine	<0.18	*	0.18	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Phenanthrene	0.017	J	0.036	0.0051	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Pyrene	0.043		0.036	0.0073	mg/Kg	☼	05/26/20 18:39	05/27/20 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	105		31 - 143				05/26/20 18:39	05/27/20 18:22	1
2-Fluorobiphenyl	77		43 - 145				05/26/20 18:39	05/27/20 18:22	1
2-Fluorophenol	83		31 - 166				05/26/20 18:39	05/27/20 18:22	1
Nitrobenzene-d5	66		37 - 147				05/26/20 18:39	05/27/20 18:22	1
Phenol-d5	92		30 - 153				05/26/20 18:39	05/27/20 18:22	1
Terphenyl-d14	106		42 - 157				05/26/20 18:39	05/27/20 18:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.1	0.21	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Arsenic	5.2		0.55	0.19	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Barium	75		0.55	0.062	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Beryllium	0.76		0.22	0.051	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Boron	8.1		2.7	0.25	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Cadmium	0.036	J B	0.11	0.020	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Calcium	11000	B	11	1.8	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Chromium	20	B	0.55	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Cobalt	12		0.55	0.14	mg/Kg	☼	05/21/20 18:19	05/22/20 20:11	2
Copper	17		0.55	0.15	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Iron	17000		11	5.7	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Lead	14		0.27	0.13	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Magnesium	8100		5.5	2.7	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Manganese	400	B	0.55	0.079	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Nickel	30		0.55	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Potassium	2400		27	9.7	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Silver	1.1		0.27	0.070	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Sodium	620	B	55	8.1	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Vanadium	28		0.27	0.064	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1
Zinc	50		1.1	0.48	mg/Kg	☼	05/21/20 18:19	05/22/20 11:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 18:56	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:56	1
Iron	0.71		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B04-1

Lab Sample ID: 500-182263-6

Date Collected: 05/19/20 10:45

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:56	1
Manganese	6.1		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:56	1
Nickel	0.023	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.078		0.050	0.010	mg/L		05/28/20 05:59	05/28/20 20:48	1
Barium	0.85		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:48	1
Beryllium	0.0084		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:48	1
Boron	0.12		0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:48	1
Calcium	20		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:48	1
Chromium	0.20		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:48	1
Cobalt	0.066		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:48	1
Iron	190		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:48	1
Lead	0.18		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:48	1
Manganese	1.6		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:48	1
Nickel	0.19		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:48	1
Potassium	16		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:48	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:48	1
Silver	0.040		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:48	1
Zinc	0.51		0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 17:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010	0.0010	mg/L		05/28/20 10:05	05/29/20 10:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0058	mg/Kg	☼	05/27/20 13:30	05/28/20 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.25	mg/Kg	☼	06/01/20 09:30	06/01/20 15:45	1
pH	8.0		0.2	0.2	SU			05/22/20 12:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B04-2

Lab Sample ID: 500-182263-7

Date Collected: 05/19/20 10:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
1,2-Dichloropropane	<0.0018 *		0.0018	0.00047	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Acetone	0.031		0.018	0.0079	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Bromomethane	<0.0046 *		0.0046	0.0017	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	05/19/20 18:19	05/27/20 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	05/19/20 18:19	05/27/20 14:02	1
4-Bromofluorobenzene (Surr)	100		75 - 131	05/19/20 18:19	05/27/20 14:02	1
Dibromofluoromethane	93		75 - 126	05/19/20 18:19	05/27/20 14:02	1
Toluene-d8 (Surr)	90		75 - 124	05/19/20 18:19	05/27/20 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B04-2

Lab Sample ID: 500-182263-7

Date Collected: 05/19/20 10:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B04-2

Lab Sample ID: 500-182263-7

Date Collected: 05/19/20 10:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
N-Nitrosodiphenylamine	<0.20 *		0.20	0.046	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	05/26/20 18:39	05/27/20 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		31 - 143				05/26/20 18:39	05/27/20 17:55	1
2-Fluorobiphenyl	59		43 - 145				05/26/20 18:39	05/27/20 17:55	1
2-Fluorophenol	68		31 - 166				05/26/20 18:39	05/27/20 17:55	1
Nitrobenzene-d5	53		37 - 147				05/26/20 18:39	05/27/20 17:55	1
Phenol-d5	70		30 - 153				05/26/20 18:39	05/27/20 17:55	1
Terphenyl-d14	103		42 - 157				05/26/20 18:39	05/27/20 17:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.2	0.22	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Arsenic	3.0		0.58	0.20	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Barium	31		0.58	0.066	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Beryllium	0.27		0.23	0.054	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Boron	4.5		2.9	0.27	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Cadmium	0.078	J B	0.12	0.021	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Calcium	68000	B	120	19	mg/Kg	☼	05/21/20 18:19	05/22/20 20:15	10
Chromium	6.8	B	0.58	0.28	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Cobalt	3.5		0.29	0.075	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Copper	7.2		0.58	0.16	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Iron	7800		12	6.0	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Lead	4.7		0.29	0.13	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Magnesium	30000		5.8	2.9	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Manganese	300	B	0.58	0.083	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Nickel	9.5		0.58	0.17	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Potassium	610		29	10	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Silver	0.55		0.29	0.074	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Sodium	580	B	58	8.5	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Vanadium	16		0.29	0.068	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	1
Zinc	21		1.2	0.51	mg/Kg	☼	05/21/20 18:19	05/22/20 11:44	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		05/28/20 05:59	05/28/20 18:59	1
Chromium	<0.025		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:59	1
Iron	<0.40		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 18:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Client Sample ID: 2582V2-19-B04-2

Lab Sample ID: 500-182263-7

Date Collected: 05/19/20 10:50

Matrix: Solid

Date Received: 05/19/20 16:35

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.4		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 18:59	1

Method: 6010B - 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		05/28/20 05:59	05/28/20 20:52	1
Barium	0.63		0.50	0.050	mg/L		05/28/20 05:59	05/28/20 20:52	1
Beryllium	0.0050		0.0040	0.0040	mg/L		05/28/20 05:59	05/28/20 20:52	1
Boron	0.091	J	0.10	0.050	mg/L		05/28/20 05:59	05/28/20 20:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/28/20 05:59	05/28/20 20:52	1
Calcium	16		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:52	1
Chromium	0.13		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:52	1
Cobalt	0.019	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:52	1
Iron	110		0.40	0.20	mg/L		05/28/20 05:59	05/28/20 20:52	1
Lead	0.027		0.0075	0.0075	mg/L		05/28/20 05:59	05/28/20 20:52	1
Manganese	0.62		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:52	1
Nickel	0.10		0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:52	1
Potassium	12		2.5	0.50	mg/L		05/28/20 05:59	05/28/20 20:52	1
Selenium	<0.050		0.050	0.020	mg/L		05/28/20 05:59	05/28/20 20:52	1
Silver	0.014	J	0.025	0.010	mg/L		05/28/20 05:59	05/28/20 20:52	1
Zinc	0.24	J	0.50	0.020	mg/L		05/28/20 05:59	05/28/20 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/28/20 05:59	05/29/20 18:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/28/20 05:59	05/29/20 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00073		0.00050	0.00050	mg/L		05/28/20 10:05	05/29/20 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.020	0.0066	mg/Kg	☼	05/27/20 13:30	05/28/20 07:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	06/01/20 09:30	06/01/20 15:45	1
pH	6.4		0.2	0.2	SU			05/22/20 12:47	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-035

Job ID: 500-182263-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com					Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com					Project Name: <u>AE7-035A</u> Project No.: <u>PTB/WO: 184-006/635A</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD Other _____ Sampler: <u>R. Senow</u>					COC No.: _____ of _____ Lab Job No.: <u>500-182263</u> Sample Temp: <u>5.0, 2.3, 3.9</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.					ANALYSES										Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other									
					 500-182263 COC																			
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	2670U-19-B01-1	5/19	1115	S	X	X					X	X	X	X	X									
2	2670U-19-B01-2	↓	1120	↓	↓	↓					↓	↓	↓	↓	↓									
3	2670U-19-B02	↓	1110	↓	↓	↓					↓	↓	↓	↓	↓									
4	2670U-19-B03-1	↓	1055	↓	↓	↓					↓	↓	↓	↓	↓									
5	2670U-19-B03-2	↓	1100	↓	↓	↓					↓	↓	↓	↓	↓									
6	2670U-19-B04-1	↓	1045	↓	↓	↓					↓	↓	↓	↓	↓									
7	2670U-19-B04-2	↓	1050	↓	↓	↓					↓	↓	↓	↓	↓									
Relinquished by: <u>Pat Lu</u>					Date/Time: <u>5/19 1635</u>					Received by: <u>Patricia Buckley TA</u>					Date/Time: <u>5/19/20 1635</u>									
Relinquished by:					Date/Time:					Received by:					Date/Time:									
Relinquished by:					Date/Time:					Received by:					Date/Time:									