



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 2688 (Wolf Road) Office Phone Number, if available: _____

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

11200 183rd Place (southwest corner of intersection of 183rd Street and Wolf Road)

City: Orland Park & Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55633 Longitude: - 87.89043
(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)]:

LOCATIONS 2589V-4-B01, 2589V-4-B02 AND 2589V-4-B03 WERE SAMPLED ADJACENT TO SITE 2589V-4. SEE TABLE 3a AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-209994-1.

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

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2589V-4
Mobil Gas Station

Sample ID	2589V-4-B01	2589V-4-B02	2589V-4-B03	Maximum Allowable Concentration						
Sample Depth (ft)	0-2	0-2	0-2	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area		
Sample Date	12/17/2021	12/17/2021	12/17/2021							
PID	0	0	0							
Sample pH	7	8.1	7.3							
Matrix	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	0.12	1,2	ND	0.027	0.09	0.09	0.98	1.3	2.1	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-209994-1
Client Project/Site: IDOT - AE7-053

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/7/2022 4:40:03 PM

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

LINKS

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B01

Lab Sample ID: 500-209994-1

Date Collected: 12/17/21 09:50

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00095	J	0.0017	0.00058	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
2-Butanone (MEK)	<0.0043	*+	0.0043	0.0019	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Acetone	0.013	J	0.017	0.0075	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Chloroethane	<0.0043	*-	0.0043	0.0013	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Trichloroethene	0.0022		0.0017	0.00058	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	12/17/21 18:30	12/27/21 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	12/17/21 18:30	12/27/21 16:32	1
4-Bromofluorobenzene (Surr)	87		75 - 131	12/17/21 18:30	12/27/21 16:32	1
Dibromofluoromethane	98		75 - 126	12/17/21 18:30	12/27/21 16:32	1
Toluene-d8 (Surr)	91		75 - 124	12/17/21 18:30	12/27/21 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 15:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/26/21 03:42	01/03/22 15:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/26/21 03:42	01/03/22 15:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/26/21 03:42	01/03/22 15:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 15:31	1

Euofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B01

Lab Sample ID: 500-209994-1

Date Collected: 12/17/21 09:50

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 83.4

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	0.091	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2,4-Dichlorophenol	<0.40		0.40	0.094	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Acenaphthene	<0.040		0.040	0.0071	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Anthracene	0.011	J	0.040	0.0066	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Benzo[a]anthracene	0.082		0.040	0.0054	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Benzo[a]pyrene	0.12		0.040	0.0077	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Benzo[b]fluoranthene	0.16		0.040	0.0086	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Benzo[g,h,i]perylene	0.062		0.040	0.013	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Benzo[k]fluoranthene	0.065		0.040	0.012	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Chrysene	0.099		0.040	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Dibenz(a,h)anthracene	0.013	J	0.040	0.0077	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Fluoranthene	0.17		0.040	0.0074	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	12/26/21 03:42	01/03/22 15:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B01

Lab Sample ID: 500-209994-1

Date Collected: 12/17/21 09:50

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 83.4

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	0.057		0.040	0.010	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
Phenanthrene	0.062		0.040	0.0055	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
Phenol	<0.20		0.20	0.088	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
Pyrene	0.15		0.040	0.0079	mg/Kg	✱	12/26/21 03:42	01/03/22 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		31 - 143				12/26/21 03:42	01/03/22 15:31	1
2-Fluorobiphenyl	78		43 - 145				12/26/21 03:42	01/03/22 15:31	1
2-Fluorophenol	74		31 - 166				12/26/21 03:42	01/03/22 15:31	1
Nitrobenzene-d5 (Surr)	65		37 - 147				12/26/21 03:42	01/03/22 15:31	1
Phenol-d5	76		30 - 153				12/26/21 03:42	01/03/22 15:31	1
Terphenyl-d14 (Surr)	88		42 - 157				12/26/21 03:42	01/03/22 15:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J F1	1.1	0.22	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Arsenic	6.1		0.56	0.19	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Barium	70		0.56	0.064	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Beryllium	0.95		0.22	0.052	mg/Kg	✱	12/27/21 10:05	01/03/22 14:56	1
Boron	4.6	F1	2.8	0.26	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Calcium	17000	B	11	1.9	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Chromium	15	F1 F2	0.56	0.28	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Cobalt	12		0.28	0.074	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Copper	13		0.56	0.16	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Iron	17000		11	5.8	mg/Kg	✱	12/27/21 10:05	01/03/22 14:56	1
Lead	19	F1	0.28	0.13	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Magnesium	9000		5.6	2.8	mg/Kg	✱	12/27/21 10:05	01/03/22 14:56	1
Manganese	570	B F2	0.56	0.081	mg/Kg	✱	12/27/21 10:05	01/03/22 14:56	1
Nickel	17		0.56	0.16	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Potassium	1300	F1	28	9.9	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Selenium	0.82		0.56	0.33	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Silver	0.089	J	0.28	0.072	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Sodium	100	B	56	8.3	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Thallium	<0.56		0.56	0.28	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Vanadium	21		0.28	0.066	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	1
Zinc	50	F1	1.1	0.49	mg/Kg	✱	12/27/21 10:05	12/27/21 23:30	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		12/29/21 08:46	12/30/21 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 18:12	1
Iron	0.22	J	0.40	0.20	mg/L		12/29/21 08:46	12/30/21 18:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B01

Lab Sample ID: 500-209994-1

Date Collected: 12/17/21 09:50

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	7.3		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:12	1

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		01/04/22 07:51	01/05/22 16:33	1
Barium	0.45	J	0.50	0.050	mg/L		01/04/22 07:51	01/06/22 15:54	1
Beryllium	0.0058		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 15:54	1
Boron	0.20	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 16:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 16:33	1
Calcium	30		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 16:33	1
Chromium	0.12		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:33	1
Cobalt	0.059		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:33	1
Iron	110	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 15:54	1
Lead	0.064		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 16:33	1
Manganese	1.6		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 15:54	1
Nickel	0.099		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:33	1
Potassium	20		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 11:35	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 16:33	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:33	1
Zinc	0.31	J	0.50	0.020	mg/L		01/04/22 07:51	01/05/22 16:33	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		12/29/21 08:46	01/05/22 14:57	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		01/04/22 07:51	01/05/22 12:33	1
Thallium	0.0027		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/28/21 11:25	12/29/21 08:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	☆	12/28/21 14:00	12/29/21 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.4		0.27	0.13	mg/Kg	☆	12/28/21 18:05	12/28/21 20:30	1
pH	7.0		0.2	0.2	SU			12/23/21 18:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B02

Lab Sample ID: 500-209994-2

Date Collected: 12/17/21 09:40

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0014	J	0.0016	0.00054	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
2-Butanone (MEK)	<0.0041	*+	0.0041	0.0018	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Carbon disulfide	<0.0041		0.0041	0.00084	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Chloroethane	<0.0041	*-	0.0041	0.0012	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Trichloroethene	0.0044		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/17/21 18:30	12/27/21 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	12/17/21 18:30	12/27/21 16:58	1
4-Bromofluorobenzene (Surr)	88		75 - 131	12/17/21 18:30	12/27/21 16:58	1
Dibromofluoromethane	100		75 - 126	12/17/21 18:30	12/27/21 16:58	1
Toluene-d8 (Surr)	93		75 - 124	12/17/21 18:30	12/27/21 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/26/21 03:42	01/03/22 15:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/26/21 03:42	01/03/22 15:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 15:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/26/21 03:42	01/03/22 15:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 15:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B02

Lab Sample ID: 500-209994-2

Date Collected: 12/17/21 09:40

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☆	12/26/21 03:42	01/03/22 15:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B02

Lab Sample ID: 500-209994-2

Date Collected: 12/17/21 09:40

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
Phenol	<0.19		0.19	0.084	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	✳	12/26/21 03:42	01/03/22 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		31 - 143				12/26/21 03:42	01/03/22 15:53	1
2-Fluorobiphenyl	75		43 - 145				12/26/21 03:42	01/03/22 15:53	1
2-Fluorophenol	73		31 - 166				12/26/21 03:42	01/03/22 15:53	1
Nitrobenzene-d5 (Surr)	62		37 - 147				12/26/21 03:42	01/03/22 15:53	1
Phenol-d5	64		30 - 153				12/26/21 03:42	01/03/22 15:53	1
Terphenyl-d14 (Surr)	84		42 - 157				12/26/21 03:42	01/03/22 15:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.2	0.22	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Arsenic	9.8		0.58	0.20	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Barium	62		0.58	0.066	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Beryllium	0.81		0.23	0.054	mg/Kg	✳	12/27/21 10:05	01/03/22 15:12	1
Boron	6.7		2.9	0.27	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Calcium	9500	B	12	2.0	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Chromium	18		0.58	0.29	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Cobalt	15		0.29	0.076	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Copper	26		0.58	0.16	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Iron	26000		12	6.0	mg/Kg	✳	12/27/21 10:05	01/03/22 15:12	1
Lead	19		0.29	0.13	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Magnesium	9200		5.8	2.9	mg/Kg	✳	12/27/21 10:05	01/03/22 15:12	1
Manganese	470	B	0.58	0.084	mg/Kg	✳	12/27/21 10:05	01/03/22 15:12	1
Nickel	46		0.58	0.17	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Potassium	2000		29	10	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Selenium	0.59		0.58	0.34	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Silver	0.25	J	0.29	0.074	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Sodium	90	B	58	8.5	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Vanadium	19		0.29	0.068	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	1
Zinc	74		1.2	0.51	mg/Kg	✳	12/27/21 10:05	12/27/21 23:46	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		12/29/21 08:46	12/30/21 18:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 18:16	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 18:16	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B02

Lab Sample ID: 500-209994-2

Date Collected: 12/17/21 09:40

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		12/29/21 08:46	12/30/21 18:16	1
Manganese	0.23		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.043	J	0.050	0.010	mg/L		01/04/22 07:51	01/05/22 16:36	1
Barium	0.31	J	0.50	0.050	mg/L		01/04/22 07:51	01/06/22 15:57	1
Beryllium	0.0065		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 15:57	1
Boron	0.26	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 16:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 16:36	1
Calcium	14		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 16:36	1
Chromium	0.11		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:36	1
Cobalt	0.026		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:36	1
Iron	110	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 15:57	1
Lead	0.029		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 16:36	1
Manganese	0.38		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 15:57	1
Nickel	0.10		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:36	1
Potassium	34		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 11:38	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 16:36	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:36	1
Zinc	0.26	J	0.50	0.020	mg/L		01/04/22 07:51	01/05/22 16:36	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		12/29/21 08:46	01/05/22 15:00	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		01/04/22 07:51	01/05/22 12:35	1
Thallium	0.0037		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/28/21 11:25	12/29/21 08:26	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	☆	12/28/21 14:00	12/29/21 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	☆	12/28/21 18:05	12/28/21 20:35	1
pH	8.1		0.2	0.2	SU			12/23/21 19:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B03

Lab Sample ID: 500-209994-3

Date Collected: 12/17/21 09:30

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
2-Butanone (MEK)	<0.0046	*+	0.0046	0.0021	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Chloroethane	<0.0046	*-	0.0046	0.0014	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Trichloroethene	0.00098	J	0.0019	0.00063	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	12/17/21 18:30	12/27/21 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	12/17/21 18:30	12/27/21 17:25	1
4-Bromofluorobenzene (Surr)	87		75 - 131	12/17/21 18:30	12/27/21 17:25	1
Dibromofluoromethane	100		75 - 126	12/17/21 18:30	12/27/21 17:25	1
Toluene-d8 (Surr)	92		75 - 124	12/17/21 18:30	12/27/21 17:25	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	☼	12/26/21 03:42	01/03/22 16:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	12/26/21 03:42	01/03/22 16:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 16:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/26/21 03:42	01/03/22 16:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/26/21 03:42	01/03/22 16:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B03

Lab Sample ID: 500-209994-3

Date Collected: 12/17/21 09:30

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Benzo[a]anthracene	0.016	J	0.040	0.0055	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Benzo[a]pyrene	0.027	J	0.040	0.0079	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Benzo[b]fluoranthene	0.037	J	0.040	0.0088	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Benzo[g,h,i]perylene	0.016	J	0.040	0.013	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Benzo[k]fluoranthene	0.014	J	0.040	0.012	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Chrysene	0.024	J	0.040	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Fluoranthene	0.033	J	0.040	0.0076	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 16:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B03

Lab Sample ID: 500-209994-3

Date Collected: 12/17/21 09:30

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 80.6

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	0.014	J	0.040	0.011	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
Isophorone	<0.20		0.20	0.046	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
Phenanthrene	0.011	J	0.040	0.0057	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
Phenol	<0.20		0.20	0.090	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
Pyrene	0.030	J	0.040	0.0081	mg/Kg	✱	12/26/21 03:42	01/03/22 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		31 - 143				12/26/21 03:42	01/03/22 16:14	1
2-Fluorobiphenyl	66		43 - 145				12/26/21 03:42	01/03/22 16:14	1
2-Fluorophenol	71		31 - 166				12/26/21 03:42	01/03/22 16:14	1
Nitrobenzene-d5 (Surr)	56		37 - 147				12/26/21 03:42	01/03/22 16:14	1
Phenol-d5	47		30 - 153				12/26/21 03:42	01/03/22 16:14	1
Terphenyl-d14 (Surr)	76		42 - 157				12/26/21 03:42	01/03/22 16:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.2	0.23	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Arsenic	8.1		0.60	0.20	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Barium	62		0.60	0.068	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Beryllium	0.86		0.24	0.056	mg/Kg	✱	12/27/21 10:05	01/03/22 15:15	1
Boron	3.7		3.0	0.28	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Calcium	1700	B	12	2.0	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Chromium	19		0.60	0.29	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Cobalt	14		0.30	0.078	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Copper	19		0.60	0.17	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Iron	23000		12	6.2	mg/Kg	✱	12/27/21 10:05	01/03/22 15:15	1
Lead	25		0.30	0.14	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Magnesium	4000		6.0	3.0	mg/Kg	✱	12/27/21 10:05	01/03/22 15:15	1
Manganese	510	B	0.60	0.086	mg/Kg	✱	12/27/21 10:05	01/03/22 15:15	1
Nickel	27		0.60	0.17	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Potassium	1700		30	11	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Selenium	0.84		0.60	0.35	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Silver	0.18	J	0.30	0.077	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Sodium	50	J B	60	8.8	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Thallium	<0.60		0.60	0.30	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Vanadium	23		0.30	0.070	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	1
Zinc	65		1.2	0.52	mg/Kg	✱	12/27/21 10:05	12/27/21 23:49	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		12/29/21 08:46	12/30/21 18:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 18:19	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 18:19	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Client Sample ID: 2589V-4-B03

Lab Sample ID: 500-209994-3

Date Collected: 12/17/21 09:30

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.64		0.40	0.20	mg/L		12/29/21 08:46	12/30/21 18:19	1
Manganese	0.040		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042	J	0.050	0.010	mg/L		01/04/22 07:51	01/05/22 16:39	1
Barium	0.43	J	0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:06	1
Beryllium	0.0066		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:06	1
Boron	0.22	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 16:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 16:39	1
Calcium	10		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 16:39	1
Chromium	0.13		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:39	1
Cobalt	0.027		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:39	1
Iron	130	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:06	1
Lead	0.048		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 16:39	1
Manganese	0.60		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:06	1
Nickel	0.12		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:39	1
Potassium	28		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 11:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 16:39	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:39	1
Zinc	0.32	J	0.50	0.020	mg/L		01/04/22 07:51	01/05/22 16:39	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		12/29/21 08:46	01/05/22 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:51	01/05/22 12:37	1
Thallium	0.0031		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 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		12/28/21 11:25	12/29/21 08:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0064	mg/Kg	☆	12/28/21 14:00	12/29/21 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20	J	0.27	0.13	mg/Kg	☆	12/28/21 18:05	12/28/21 20:36	1
pH	7.3		0.2	0.2	SU			12/23/21 19:04	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Glossary

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

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Glossary (Continued)

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

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

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209994-1

Laboratory: Eurofins Chicago

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

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

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

CHAIN OF CUSTODY RECORD





500-209994 COC

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Laboratory Lab 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>AE7-053A</u> Project No <u>PTB/WO1 184-006/053A</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>S. Hemm, S. Khodari</u>	COC No _____ of _____ Lab Job No <u>500-209994</u> Sample Temp <u>41</u>
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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		
1	2589V-4-B01	12/17/21	0915	S	X	X					X	X	X	X	X			
2	2589V-4-B02	↓	0940	S	X	X					X	X	X	X	X			
3	2589V-4-B03	↓	0930	S	X	X					X	X	X	X	X			
4	Trip Blank #1	12/17/21			X													

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

Relinquished by 	Date/Time 12/17/21 1340	Received by  ETA-CHI	Date/Time 12/17/21 1340
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: FAU 2688 (Wolf Road) Office Phone Number, if available: _____

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

18424 South Wolf Road

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55458 Longitude: -87.89029
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOL: 1978055008 and 1978055023

IEPA Site Number(s), if assigned: BOL: 1970603002 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 45

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 2589V-6-B01 WAS SAMPLED ADJACENT TO SITE 2589V-6. SEE TABLE 3b AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-209997-1.

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

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2589V-6
Einoder Construction

Sample ID	2589V-6-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	12/17/2021	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-209997-1
Client Project/Site: IDOT - AE7-053

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/7/2022 4:41:58 PM

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

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results through
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www.eurofinsus.com/Env

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209997-1

Client Sample ID: 2589V-6-B01

Lab Sample ID: 500-209997-1

Date Collected: 12/17/21 10:00

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 79.3

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	☼	12/17/21 18:30	12/27/21 18:17	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
2-Butanone (MEK)	<0.0052	*+	0.0052	0.0023	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Acetone	0.050		0.021	0.0090	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Chloroethane	<0.0052	*-	0.0052	0.0015	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Trichloroethene	0.0013	J	0.0021	0.00070	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1
Xylenes, Total	<0.0042		0.0042	0.00066	mg/Kg	☼	12/17/21 18:30	12/27/21 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	12/17/21 18:30	12/27/21 18:17	1
4-Bromofluorobenzene (Surr)	88		75 - 131	12/17/21 18:30	12/27/21 18:17	1
Dibromofluoromethane	101		75 - 126	12/17/21 18:30	12/27/21 18:17	1
Toluene-d8 (Surr)	93		75 - 124	12/17/21 18:30	12/27/21 18:17	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	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209997-1

Client Sample ID: 2589V-6-B01

Lab Sample ID: 500-209997-1

Date Collected: 12/17/21 10:00

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 79.3

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	0.093	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Anthracene	0.0091	J	0.040	0.0068	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Benzo[a]anthracene	0.050		0.040	0.0055	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Benzo[a]pyrene	0.071		0.040	0.0078	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Benzo[b]fluoranthene	0.10		0.040	0.0088	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Benzo[g,h,i]perylene	0.036	J	0.040	0.013	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Benzo[k]fluoranthene	0.029	J	0.040	0.012	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Chrysene	0.075		0.040	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Fluoranthene	0.091		0.040	0.0075	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 16:36	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209997-1

Client Sample ID: 2589V-6-B01

Lab Sample ID: 500-209997-1

Date Collected: 12/17/21 10:00

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 79.3

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	0.030	J	0.040	0.011	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
Phenanthrene	0.064		0.040	0.0057	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
Pyrene	0.11		0.040	0.0081	mg/Kg	☼	12/26/21 03:42	01/03/22 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143				12/26/21 03:42	01/03/22 16:36	1
2-Fluorobiphenyl	61		43 - 145				12/26/21 03:42	01/03/22 16:36	1
2-Fluorophenol	65		31 - 166				12/26/21 03:42	01/03/22 16:36	1
Nitrobenzene-d5 (Surr)	47		37 - 147				12/26/21 03:42	01/03/22 16:36	1
Phenol-d5	60		30 - 153				12/26/21 03:42	01/03/22 16:36	1
Terphenyl-d14 (Surr)	68		42 - 157				12/26/21 03:42	01/03/22 16:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.2	0.24	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Arsenic	8.2		0.62	0.21	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Barium	61		0.62	0.071	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Beryllium	0.79		0.25	0.058	mg/Kg	☼	12/27/21 10:05	01/03/22 14:43	1
Boron	8.4		3.1	0.29	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Cadmium	0.11	J B	0.12	0.022	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Calcium	26000	B	12	2.1	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Chromium	19		0.62	0.31	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Cobalt	12		0.31	0.081	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Copper	22		0.62	0.17	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Iron	22000		12	6.4	mg/Kg	☼	12/27/21 10:05	01/03/22 14:43	1
Lead	39		0.31	0.14	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Magnesium	17000		6.2	3.1	mg/Kg	☼	12/27/21 10:05	01/03/22 14:43	1
Manganese	490	B	0.62	0.090	mg/Kg	☼	12/27/21 10:05	01/03/22 14:43	1
Nickel	28		0.62	0.18	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Potassium	2100		31	11	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Selenium	0.40	J	0.62	0.36	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Silver	0.091	J	0.31	0.080	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Sodium	1300	B	62	9.2	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Vanadium	23		0.31	0.073	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	1
Zinc	88		1.2	0.54	mg/Kg	☼	12/27/21 10:05	12/28/21 00:19	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		12/29/21 08:46	12/30/21 18:09	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:09	1
Lead	0.0093		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 18:09	1
Nickel	0.022	J	0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:09	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209997-1

Client Sample ID: 2589V-6-B01

Lab Sample ID: 500-209997-1

Date Collected: 12/17/21 10:00

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 18:09	1
Iron	<0.40		0.40	0.20	mg/L		12/29/21 08:46	12/30/21 18:09	1
Manganese	10		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.087		0.050	0.010	mg/L		01/04/22 07:51	01/05/22 16:42	1
Barium	0.86		0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:09	1
Beryllium	0.013		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:09	1
Boron	0.28	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 16:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 16:42	1
Calcium	28		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 16:42	1
Chromium	0.25		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:42	1
Cobalt	0.099		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:42	1
Iron	250	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:09	1
Lead	0.34		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 16:42	1
Manganese	3.3		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:09	1
Nickel	0.27		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:42	1
Potassium	45		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 11:44	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 16:42	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:42	1
Zinc	0.84		0.50	0.020	mg/L		01/04/22 07:51	01/05/22 16:42	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		12/29/21 08:46	01/05/22 14:51	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		01/04/22 07:51	01/05/22 12:39	1
Thallium	0.0053		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 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		12/28/21 11:25	12/29/21 08:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0067	mg/Kg	✱	12/28/21 14:00	12/29/21 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.33		0.29	0.14	mg/Kg	✱	12/28/21 18:05	12/28/21 20:38	1
pH	8.0		0.2	0.2	SU			12/23/21 19:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209997-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209997-1

Laboratory: Eurofins Chicago

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

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

1

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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>A27-053A</u> 500-209997 COC Project No <u>PTB/WO: 184-006/053A</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>S. Heinz, S. Khodaei</u>	COC No _____ of _____ Lab Job No <u>500-209997</u> Sample Temp <u>44, 41</u>
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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			
1	2589V-6-B01	12/17/21	1000	S	X	X					X	X	X	X	X				

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

Relinquished by 	Date/Time <u>12/17/21 1340</u>	Received by <u>Stephanie Hernandez</u> ETA-CH1	Date/Time <u>12/17/21 1340</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: FAU 2688 (Wolf Road) Office Phone Number, if available: _____

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

18436 South Wolf Road

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55383 Longitude: -87.89024

(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: 1978055030 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 195

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 2589V-9-B01 WAS SAMPLED ADJACENT TO SITE 2589V-9. SEE TABLE 3c AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-209999-1.

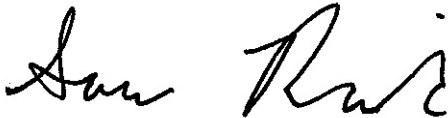
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

**ISGS Site 2589V-9
Agricultural Land**

Sample ID	2589V-9-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	12/17/2021					
PID	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					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-209999-1
Client Project/Site: IDOT - AE7-053

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/10/2022 2:05:44 PM

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

LINKS

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209999-1

Client Sample ID: 2589V-9-B01

Lab Sample ID: 500-209999-1

Date Collected: 12/17/21 10:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00094	J	0.0017	0.00056	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
2-Butanone (MEK)	<0.0042	*+	0.0042	0.0019	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Chloroethane	<0.0042	*-	0.0042	0.0012	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Trichloroethene	0.0022		0.0017	0.00056	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	12/17/21 18:30	12/27/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	12/17/21 18:30	12/27/21 18:43	1
4-Bromofluorobenzene (Surr)	89		75 - 131	12/17/21 18:30	12/27/21 18:43	1
Dibromofluoromethane	99		75 - 126	12/17/21 18:30	12/27/21 18:43	1
Toluene-d8 (Surr)	94		75 - 124	12/17/21 18:30	12/27/21 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/26/21 03:42	01/03/22 16:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 16:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 16:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/26/21 03:42	01/03/22 16:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 16:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209999-1

Client Sample ID: 2589V-9-B01

Lab Sample ID: 500-209999-1

Date Collected: 12/17/21 10:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Benzo[a]anthracene	0.0092 J		0.038	0.0052	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Benzo[a]pyrene	0.016 J		0.038	0.0074	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Benzo[b]fluoranthene	0.023 J		0.038	0.0083	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Benzofluoranthene	<0.038		0.038	0.012	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Benzo[k]fluoranthene	0.011 J		0.038	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Chrysene	0.013 J		0.038	0.010	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Fluoranthene	0.016 J		0.038	0.0071	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☆	12/26/21 03:42	01/03/22 16:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209999-1

Client Sample ID: 2589V-9-B01

Lab Sample ID: 500-209999-1

Date Collected: 12/17/21 10:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.9

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	0.010	J	0.038	0.0099	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
Phenanthrene	0.0073	J	0.038	0.0053	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
Phenol	<0.19		0.19	0.085	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
Pyrene	0.015	J	0.038	0.0076	mg/Kg	✳	12/26/21 03:42	01/03/22 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		31 - 143				12/26/21 03:42	01/03/22 16:58	1
2-Fluorobiphenyl	79		43 - 145				12/26/21 03:42	01/03/22 16:58	1
2-Fluorophenol	81		31 - 166				12/26/21 03:42	01/03/22 16:58	1
Nitrobenzene-d5 (Surr)	64		37 - 147				12/26/21 03:42	01/03/22 16:58	1
Phenol-d5	75		30 - 153				12/26/21 03:42	01/03/22 16:58	1
Terphenyl-d14 (Surr)	91		42 - 157				12/26/21 03:42	01/03/22 16:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.1	0.22	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Arsenic	8.9		0.56	0.19	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Barium	49		0.56	0.064	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Beryllium	0.72		0.22	0.052	mg/Kg	✳	12/27/21 10:05	01/03/22 15:18	1
Boron	7.5		2.8	0.26	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Calcium	21000	B	11	1.9	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Chromium	17		0.56	0.28	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Cobalt	13		0.28	0.074	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Copper	20		0.56	0.16	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Iron	22000		11	5.8	mg/Kg	✳	12/27/21 10:05	01/03/22 15:18	1
Lead	28		0.28	0.13	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Magnesium	14000		5.6	2.8	mg/Kg	✳	12/27/21 10:05	01/03/22 15:18	1
Manganese	500	B	0.56	0.081	mg/Kg	✳	12/27/21 10:05	01/03/22 15:18	1
Nickel	29		0.56	0.16	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Potassium	2000		28	9.9	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Selenium	0.79		0.56	0.33	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Silver	<0.28		0.28	0.072	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Sodium	2000	B	56	8.3	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Thallium	<0.56		0.56	0.28	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Vanadium	20		0.28	0.066	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1
Zinc	69		1.1	0.49	mg/Kg	✳	12/27/21 10:05	12/27/21 23:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/29/21 08:46	12/30/21 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 18:02	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209999-1

Client Sample ID: 2589V-9-B01

Lab Sample ID: 500-209999-1

Date Collected: 12/17/21 10:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 18:02	1
Iron	0.32	J	0.40	0.20	mg/L		12/29/21 08:46	12/30/21 18:02	1
Manganese	2.7		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		01/04/22 07:51	01/05/22 16:52	1
Barium	0.58		0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:13	1
Beryllium	0.014		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:13	1
Boron	0.33	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 16:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 16:52	1
Calcium	29		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 16:52	1
Chromium	0.22		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:52	1
Cobalt	0.083		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:52	1
Iron	260	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:13	1
Lead	0.13		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 16:52	1
Manganese	1.7		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:13	1
Nickel	0.28		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:52	1
Potassium	61		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 11:47	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 16:52	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:52	1
Zinc	0.68		0.50	0.020	mg/L		01/04/22 07:51	01/05/22 16:52	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		12/29/21 08:46	01/05/22 14:47	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		01/04/22 07:51	01/05/22 12:41	1
Thallium	0.0059		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/28/21 11:25	12/29/21 08:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	✱	12/28/21 14:00	12/29/21 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	✱	12/28/21 18:05	12/28/21 20:40	1
pH	7.5		0.2	0.2	SU			12/23/21 19:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209999-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-209999-1

Laboratory: Eurofins Chicago

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

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

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

CHAIN OF CUSTODY RECORD



Client Contact 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>AZ7-053A</u> Project No <u>PTB/WO: 184-006/053A</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>S. Heinz / S. Kholaei</u>	500-209999 COC COC No _____ of _____ Lab Job No <u>500-209999</u> Sample Temp <u>4.1</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												
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	

- 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	2589V-9-B01	12/17/21	1020	S	X	X					X	X	X	X	X				
2	2589V-9-B02	12/17/21	1010	S	X	X					X	X	X	X	X				

Relinquished by <u><i>[Signature]</i></u>	Date/Time <u>12/17/21 1340</u>	Received by <u>Stephanie Hemminger, EPA-GH1</u>	Date/Time <u>12/17/21 1340</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: FAU 2688 (Wolf Road) Office Phone Number, if available: _____

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

18500 South Wolf Road (northwest corner of intersection of I-80 and Wolf Road)

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55325 Longitude: - 87.89025
(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.): 117

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 2589V-10-B01, 2589V-10-B02 AND 2589V-10-B03 WERE SAMPLED ADJACENT TO SITES 2589V-3 AND 2589V-10. SEE TABLE 3d AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-210000-1.

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

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2589V-10
Agricultural Land

Sample ID	2589V-10-B01	2589V-10-B02	2589V-10-B03	Maximum Allowable Concentration				
Sample Depth (ft)	0-6	0-2	0-2	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	12/17/2021	12/17/2021	12/17/2021					
PID	0	0	0					
Sample pH	8.3	7.6	8					
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

ANALYTICAL REPORT

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

Laboratory Job ID: 500-210000-1
Client Project/Site: IDOT - AE7-053

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/7/2022 4:44:23 PM

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

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B01

Lab Sample ID: 500-210000-1

Date Collected: 12/17/21 10:50

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.2

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	☼	12/17/21 18:30	12/26/21 15:54	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Chloroethane	<0.0042	*	0.0042	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Trichloroethene	0.00084	J	0.0017	0.00057	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	12/17/21 18:30	12/26/21 15:54	1
4-Bromofluorobenzene (Surr)	107		75 - 131	12/17/21 18:30	12/26/21 15:54	1
Dibromofluoromethane	121		75 - 126	12/17/21 18:30	12/26/21 15:54	1
Toluene-d8 (Surr)	106		75 - 124	12/17/21 18:30	12/26/21 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/26/21 03:42	01/03/22 17:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/26/21 03:42	01/03/22 17:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 17:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/26/21 03:42	01/03/22 17:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 17:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B01

Lab Sample ID: 500-210000-1

Date Collected: 12/17/21 10:50

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B01

Lab Sample ID: 500-210000-1

Date Collected: 12/17/21 10:50

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.2

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	0.0099	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Phenol	<0.19		0.19	0.085	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☆	12/26/21 03:42	01/03/22 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143				12/26/21 03:42	01/03/22 17:42	1
2-Fluorobiphenyl	77		43 - 145				12/26/21 03:42	01/03/22 17:42	1
2-Fluorophenol	70		31 - 166				12/26/21 03:42	01/03/22 17:42	1
Nitrobenzene-d5 (Surr)	58		37 - 147				12/26/21 03:42	01/03/22 17:42	1
Phenol-d5	75		30 - 153				12/26/21 03:42	01/03/22 17:42	1
Terphenyl-d14 (Surr)	90		42 - 157				12/26/21 03:42	01/03/22 17:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.77	J	1.1	0.22	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Arsenic	8.8		0.56	0.19	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Barium	33		0.56	0.064	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Beryllium	0.68		0.22	0.052	mg/Kg	☆	12/27/21 10:05	01/03/22 15:31	1
Boron	9.0		2.8	0.26	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Calcium	45000	B	56	9.5	mg/Kg	☆	12/27/21 10:05	01/03/22 15:39	5
Chromium	16		0.56	0.28	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Cobalt	14		0.28	0.073	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Copper	22		0.56	0.16	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Iron	22000		11	5.8	mg/Kg	☆	12/27/21 10:05	01/03/22 15:31	1
Lead	14		0.28	0.13	mg/Kg	☆	12/27/21 10:05	01/03/22 15:31	1
Magnesium	22000		5.6	2.8	mg/Kg	☆	12/27/21 10:05	01/03/22 15:31	1
Manganese	410	B	0.56	0.081	mg/Kg	☆	12/27/21 10:05	01/03/22 15:31	1
Nickel	34		0.56	0.16	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Potassium	2300		28	9.9	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Silver	<0.28		0.28	0.072	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Sodium	710	B	56	8.3	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Vanadium	17		0.28	0.066	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	1
Zinc	63		1.1	0.49	mg/Kg	☆	12/27/21 10:05	12/27/21 23:59	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		12/29/21 08:46	12/30/21 17:45	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 17:45	1
Nickel	0.011	J	0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B01

Lab Sample ID: 500-210000-1

Date Collected: 12/17/21 10:50

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 17:45	1
Iron	<0.40		0.40	0.20	mg/L		12/29/21 08:46	12/30/21 17:45	1
Manganese	2.5		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		01/04/22 07:51	01/05/22 16:58	1
Barium	0.55		0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:19	1
Beryllium	0.014		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:19	1
Boron	0.38	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 16:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 16:58	1
Calcium	29		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 16:58	1
Chromium	0.24		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:58	1
Cobalt	0.087		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:58	1
Iron	260	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:19	1
Lead	0.12		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 16:58	1
Manganese	1.3		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:19	1
Nickel	0.30		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:58	1
Potassium	68		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 11:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 16:58	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 16:58	1
Zinc	0.67		0.50	0.020	mg/L		01/04/22 07:51	01/05/22 16:58	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		12/29/21 08:46	01/05/22 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:51	01/05/22 12:45	1
Thallium	0.0070		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:45	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		12/28/21 11:25	12/29/21 08:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0060	mg/Kg	✱	12/28/21 14:00	12/29/21 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	✱	12/28/21 18:05	12/28/21 20:44	1
pH	8.3		0.2	0.2	SU			12/23/21 19:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B02

Lab Sample ID: 500-210000-2

Date Collected: 12/17/21 10:40

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Carbon disulfide	<0.0050		0.0050	0.0011	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Chloroethane	<0.0050	*	0.0050	0.0015	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Trichloroethene	0.0010	J	0.0020	0.00068	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	☼	12/17/21 18:30	12/26/21 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		70 - 134	12/17/21 18:30	12/26/21 16:19	1
4-Bromofluorobenzene (Surr)	107		75 - 131	12/17/21 18:30	12/26/21 16:19	1
Dibromofluoromethane	119		75 - 126	12/17/21 18:30	12/26/21 16:19	1
Toluene-d8 (Surr)	108		75 - 124	12/17/21 18:30	12/26/21 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 18:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	12/26/21 03:42	01/03/22 18:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 18:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/26/21 03:42	01/03/22 18:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/26/21 03:42	01/03/22 18:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B02

Lab Sample ID: 500-210000-2

Date Collected: 12/17/21 10:40

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 80.7

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	0.093	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B02

Lab Sample ID: 500-210000-2

Date Collected: 12/17/21 10:40

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 80.7

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	<0.040		0.040	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Phenol	<0.20		0.20	0.090	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☆	12/26/21 03:42	01/03/22 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143				12/26/21 03:42	01/03/22 18:04	1
2-Fluorobiphenyl	75		43 - 145				12/26/21 03:42	01/03/22 18:04	1
2-Fluorophenol	76		31 - 166				12/26/21 03:42	01/03/22 18:04	1
Nitrobenzene-d5 (Surr)	61		37 - 147				12/26/21 03:42	01/03/22 18:04	1
Phenol-d5	60		30 - 153				12/26/21 03:42	01/03/22 18:04	1
Terphenyl-d14 (Surr)	87		42 - 157				12/26/21 03:42	01/03/22 18:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.81	J	1.2	0.23	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Arsenic	9.8		0.59	0.20	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Barium	48		0.59	0.067	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Beryllium	1.0		0.24	0.055	mg/Kg	☆	12/27/21 10:05	01/03/22 15:34	1
Boron	6.1		3.0	0.28	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Cadmium	0.18	B	0.12	0.021	mg/Kg	☆	12/27/21 10:05	01/03/22 15:34	1
Calcium	1900	B	12	2.0	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Chromium	23		0.59	0.29	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Cobalt	15		0.30	0.077	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Copper	26		0.59	0.17	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Iron	29000		12	6.1	mg/Kg	☆	12/27/21 10:05	01/03/22 15:34	1
Lead	22		0.30	0.14	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Magnesium	5200		5.9	2.9	mg/Kg	☆	12/27/21 10:05	01/03/22 15:34	1
Manganese	360	B	0.59	0.086	mg/Kg	☆	12/27/21 10:05	01/03/22 15:34	1
Nickel	43		0.59	0.17	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Potassium	2500		30	10	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Selenium	0.74		0.59	0.35	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Silver	0.12	J	0.30	0.076	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Sodium	800	B	59	8.7	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Thallium	<0.59		0.59	0.30	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Vanadium	24		0.30	0.070	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	1
Zinc	70		1.2	0.52	mg/Kg	☆	12/27/21 10:05	12/28/21 00:12	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		12/29/21 08:46	12/30/21 17:48	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 17:48	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B02

Lab Sample ID: 500-210000-2

Date Collected: 12/17/21 10:40

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 17:48	1
Iron	0.43		0.40	0.20	mg/L		12/29/21 08:46	12/30/21 17:48	1
Manganese	0.074		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		01/04/22 07:51	01/05/22 17:01	1
Barium	0.66		0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:22	1
Beryllium	0.018		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:22	1
Boron	0.34	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 17:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 17:01	1
Calcium	20		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 17:01	1
Chromium	0.30		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:01	1
Cobalt	0.078		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:01	1
Iron	320	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:22	1
Lead	0.11		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 17:01	1
Manganese	1.1		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:22	1
Nickel	0.40		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:01	1
Potassium	69		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 12:03	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 17:01	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:01	1
Zinc	0.67		0.50	0.020	mg/L		01/04/22 07:51	01/05/22 17:01	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		12/29/21 08:46	01/05/22 14:43	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		01/04/22 07:51	01/05/22 12:47	1
Thallium	0.0071		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:47	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		12/28/21 11:25	12/29/21 08:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0067	mg/Kg	✱	12/28/21 14:00	12/29/21 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	✱	12/28/21 18:05	12/28/21 20:45	1
pH	7.6		0.2	0.2	SU			12/23/21 19:52	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B03

Lab Sample ID: 500-210000-3

Date Collected: 12/17/21 10:30

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00071	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
1,2-Dichloropropane	<0.0016		0.0016	0.00043	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Acetone	<0.016		0.016	0.0072	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Chloroethane	<0.0041	*	0.0041	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Toluene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Trichloroethene	0.00065	J	0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	12/17/21 18:30	12/26/21 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	12/17/21 18:30	12/26/21 16:45	1
4-Bromofluorobenzene (Surr)	110		75 - 131	12/17/21 18:30	12/26/21 16:45	1
Dibromofluoromethane	121		75 - 126	12/17/21 18:30	12/26/21 16:45	1
Toluene-d8 (Surr)	106		75 - 124	12/17/21 18:30	12/26/21 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/26/21 03:42	01/03/22 18:25	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/26/21 03:42	01/03/22 18:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 18:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/26/21 03:42	01/03/22 18:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/26/21 03:42	01/03/22 18:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B03

Lab Sample ID: 500-210000-3

Date Collected: 12/17/21 10:30

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Benzo[a]anthracene	0.0093	J	0.039	0.0052	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Benzo[a]pyrene	0.017	J	0.039	0.0075	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Benzo[b]fluoranthene	0.022	J	0.039	0.0084	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Chrysene	0.017	J	0.039	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Fluoranthene	0.025	J	0.039	0.0072	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☆	12/26/21 03:42	01/03/22 18:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B03

Lab Sample ID: 500-210000-3

Date Collected: 12/17/21 10:30

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
Phenanthrene	0.014	J	0.039	0.0054	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
Phenol	<0.20		0.20	0.087	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
Pyrene	0.021	J	0.039	0.0077	mg/Kg	✳	12/26/21 03:42	01/03/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		31 - 143				12/26/21 03:42	01/03/22 18:25	1
2-Fluorobiphenyl	79		43 - 145				12/26/21 03:42	01/03/22 18:25	1
2-Fluorophenol	79		31 - 166				12/26/21 03:42	01/03/22 18:25	1
Nitrobenzene-d5 (Surr)	63		37 - 147				12/26/21 03:42	01/03/22 18:25	1
Phenol-d5	84		30 - 153				12/26/21 03:42	01/03/22 18:25	1
Terphenyl-d14 (Surr)	87		42 - 157				12/26/21 03:42	01/03/22 18:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.1	0.21	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Arsenic	7.6		0.55	0.19	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Barium	43		0.55	0.063	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Beryllium	0.70		0.22	0.051	mg/Kg	✳	12/27/21 10:05	01/03/22 15:37	1
Boron	11		2.8	0.26	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Calcium	42000	B	55	9.3	mg/Kg	✳	12/27/21 10:05	01/03/22 15:42	5
Chromium	18		0.55	0.27	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Cobalt	15		0.28	0.072	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Copper	24		0.55	0.15	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Iron	21000		11	5.7	mg/Kg	✳	12/27/21 10:05	01/03/22 15:37	1
Lead	13		0.28	0.13	mg/Kg	✳	12/27/21 10:05	01/03/22 15:37	1
Magnesium	22000		5.5	2.7	mg/Kg	✳	12/27/21 10:05	01/03/22 15:37	1
Manganese	440	B	0.55	0.080	mg/Kg	✳	12/27/21 10:05	01/03/22 15:37	1
Nickel	35		0.55	0.16	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Potassium	2500		28	9.7	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Selenium	<0.55		0.55	0.32	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Silver	<0.28		0.28	0.071	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Sodium	1200	B	55	8.1	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Thallium	<0.55		0.55	0.27	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Vanadium	19		0.28	0.065	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	1
Zinc	61		1.1	0.48	mg/Kg	✳	12/27/21 10:05	12/28/21 00:16	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		12/29/21 08:46	12/30/21 17:51	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 17:51	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:51	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Client Sample ID: 2589V-10-B03

Lab Sample ID: 500-210000-3

Date Collected: 12/17/21 10:30

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 17:51	1
Iron	<0.40		0.40	0.20	mg/L		12/29/21 08:46	12/30/21 17:51	1
Manganese	1.2		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.098		0.050	0.010	mg/L		01/04/22 07:51	01/05/22 17:05	1
Barium	0.59		0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:25	1
Beryllium	0.014		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:25	1
Boron	0.35	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 17:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 17:05	1
Calcium	27		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 17:05	1
Chromium	0.23		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:05	1
Cobalt	0.070		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:05	1
Iron	240	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:25	1
Lead	0.091		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 17:05	1
Manganese	0.86		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:25	1
Nickel	0.28		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:05	1
Potassium	65		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 12:06	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 17:05	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:05	1
Zinc	0.60		0.50	0.020	mg/L		01/04/22 07:51	01/05/22 17:05	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		12/29/21 08:46	01/05/22 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:51	01/05/22 12:53	1
Thallium	0.0078		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/28/21 11:25	12/29/21 08:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0064	mg/Kg	⊛	12/28/21 14:00	12/29/21 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.15	J	0.25	0.13	mg/Kg	⊛	12/28/21 18:05	12/28/21 20:47	1
pH	8.0		0.2	0.2	SU			12/23/21 19:54	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210000-1

Laboratory: Eurofins Chicago

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

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

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

CHAIN OF CUSTODY RECORD




Client Contact 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>A&E-053A</u> 500-210000 COC Project No <u>PTB/WO: 184-006/053A</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>S. Hemb, S. Khudner</u>	COC No _____ of _____ Lab Job No <u>500-210000</u> Sample Temp <u>44, 41</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												
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	

- 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	2589V-10-B01	12/17/21	1050	S	X	X					X	X	X	X	X				
2	2589V-10-B02	12/17/21	1040	S	X	X					X	X	X	X	X				
3	2589V-10-B03	12/17/21	1030	S	X	X					X	X	X	X	X				

Relinquished by 	Date/Time <u>12/17/21 1340</u>	Received by <u>Stephanie Hemondley ETA-CHI</u>	Date/Time <u>12/17/21 1340</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: FAU 2688 (Wolf Road) Office Phone Number, if available: _____

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

Along I-80 between mile markers 83 and 84 (NW, NE, SW and SE corners of intersection of I-80 and Wolf Road overpass)

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55247 Longitude: - 87.89009
(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.): 245

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 2589V-12-B01 AND 2589V-12-B02 WERE SAMPLED ADJACENT TO SITE 2589V-12. SEE TABLE 3e AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-210003-1.

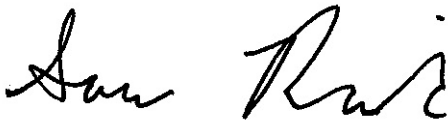
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2589V-12
ROW

Sample ID	2589V-12-B01-1	2589V-12-B01-1 DUP	2589V-12-B01-2	2589V-12-B02-1	2589V-12-B02-2	Maximum Allowable Concentration				
Sample Depth (ft)	0-7.5	0-7.5	7.5-15	0-7.5	7.5-15	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	12/17/2021	12/17/2021	12/17/2021	12/17/2021	12/17/2021					
PID	0	0	0	0	0					
Sample pH	8.3	7.5	8.3	8.5	8					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

ANALYTICAL REPORT

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

Laboratory Job ID: 500-210003-1
Client Project/Site: IDOT - AE7-053

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/7/2022 5:15:16 PM

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

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-1

Lab Sample ID: 500-210003-1

Date Collected: 12/17/21 12:00

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Chloroethane	<0.0041	*	0.0041	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Trichloroethene	0.0011	J	0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	12/17/21 18:30	12/26/21 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		70 - 134	12/17/21 18:30	12/26/21 13:46	1
4-Bromofluorobenzene (Surr)	111		75 - 131	12/17/21 18:30	12/26/21 13:46	1
Dibromofluoromethane	119		75 - 126	12/17/21 18:30	12/26/21 13:46	1
Toluene-d8 (Surr)	106		75 - 124	12/17/21 18:30	12/26/21 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-1

Lab Sample ID: 500-210003-1

Date Collected: 12/17/21 12:00

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2-Methylnaphthalene	0.015	J	0.076	0.0069	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Benzo[g,h,i]perylene	0.019	J	0.037	0.012	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Chrysene	0.021	J	0.037	0.010	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Fluoranthene	0.0080	J	0.037	0.0070	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-1

Lab Sample ID: 500-210003-1

Date Collected: 12/17/21 12:00

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Phenanthrene	0.050		0.037	0.0052	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Pyrene	0.020	J	0.037	0.0075	mg/Kg	☼	12/26/21 03:42	01/03/22 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		31 - 143				12/26/21 03:42	01/03/22 18:47	1
2-Fluorobiphenyl	76		43 - 145				12/26/21 03:42	01/03/22 18:47	1
2-Fluorophenol	75		31 - 166				12/26/21 03:42	01/03/22 18:47	1
Nitrobenzene-d5 (Surr)	60		37 - 147				12/26/21 03:42	01/03/22 18:47	1
Phenol-d5	71		30 - 153				12/26/21 03:42	01/03/22 18:47	1
Terphenyl-d14 (Surr)	82		42 - 157				12/26/21 03:42	01/03/22 18:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J B	1.1	0.22	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Arsenic	5.5		0.57	0.20	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Barium	39		0.57	0.065	mg/Kg	☼	01/04/22 09:57	01/05/22 15:36	1
Beryllium	0.72		0.23	0.053	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Boron	10		2.9	0.27	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Cadmium	0.18	B	0.11	0.021	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Calcium	68000	B	57	9.7	mg/Kg	☼	01/04/22 09:57	01/05/22 15:39	5
Chromium	15		0.57	0.28	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Cobalt	7.8		0.29	0.075	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Copper	21		0.57	0.16	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Iron	18000		11	5.9	mg/Kg	☼	01/04/22 09:57	01/07/22 12:47	1
Lead	12		0.29	0.13	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Magnesium	28000		5.7	2.8	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Manganese	260		0.57	0.083	mg/Kg	☼	01/04/22 09:57	01/07/22 12:47	1
Nickel	27		0.57	0.17	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Potassium	3200		29	10	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Selenium	0.50	J	0.57	0.34	mg/Kg	☼	01/04/22 09:57	01/05/22 15:36	1
Silver	0.33		0.29	0.074	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Sodium	400		57	8.4	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Vanadium	17		0.29	0.067	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1
Zinc	56		1.1	0.50	mg/Kg	☼	01/04/22 09:57	01/04/22 19:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 17:28	1
Iron	<0.20		0.20	0.20	mg/L		12/29/21 08:46	12/30/21 17:28	1
Manganese	1.3		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:28	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-1

Lab Sample ID: 500-210003-1

Date Collected: 12/17/21 12:00

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.9

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		01/04/22 07:51	01/05/22 17:08	1
Barium	0.23	J	0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:28	1
Boron	0.19	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 17:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 17:08	1
Calcium	34		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 17:08	1
Chromium	0.081		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:08	1
Cobalt	0.020	J	0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:08	1
Iron	65	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:28	1
Lead	0.027		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 17:08	1
Manganese	0.32		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:28	1
Nickel	0.076		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:08	1
Potassium	26		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 12:09	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 17:08	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:08	1
Zinc	0.17	J	0.50	0.020	mg/L		01/04/22 07:51	01/05/22 17:08	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		01/04/22 07:51	01/05/22 12:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:55	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		12/28/21 11:25	12/29/21 08:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0060	mg/Kg	⊛	12/28/21 14:00	12/29/21 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg	⊛	12/30/21 17:00	12/30/21 20:18	1
pH	8.3		0.2	0.2	SU			12/23/21 19:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-1 Dup

Lab Sample ID: 500-210003-2

Date Collected: 12/17/21 12:10

Matrix: Solid

Date Received: 12/17/21 13:40

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	<0.0016		0.0016	0.00053	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Acetone	0.0091	J	0.016	0.0069	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Trichloroethene	0.0011	J	0.0016	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/17/21 18:30	12/26/21 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	12/17/21 18:30	12/26/21 14:12	1
4-Bromofluorobenzene (Surr)	118		75 - 131	12/17/21 18:30	12/26/21 14:12	1
Dibromofluoromethane	118		75 - 126	12/17/21 18:30	12/26/21 14:12	1
Toluene-d8 (Surr)	112		75 - 124	12/17/21 18:30	12/26/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-1 Dup

Lab Sample ID: 500-210003-2

Date Collected: 12/17/21 12:10

Matrix: Solid

Date Received: 12/17/21 13:40

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	<0.38		0.38	0.087	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Benzo[g,h,i]perylene	0.015 J		0.038	0.012	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Chrysene	0.028 J		0.038	0.010	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☆	12/26/21 03:42	01/03/22 19:09	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-1 Dup

Lab Sample ID: 500-210003-2

Date Collected: 12/17/21 12:10

Matrix: Solid

Date Received: 12/17/21 13:40

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	<0.038		0.038	0.0099	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
Phenanthrene	0.025	J	0.038	0.0053	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
Pyrene	0.024	J	0.038	0.0076	mg/Kg	☼	12/26/21 03:42	01/03/22 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		31 - 143				12/26/21 03:42	01/03/22 19:09	1
2-Fluorobiphenyl	74		43 - 145				12/26/21 03:42	01/03/22 19:09	1
2-Fluorophenol	70		31 - 166				12/26/21 03:42	01/03/22 19:09	1
Nitrobenzene-d5 (Surr)	59		37 - 147				12/26/21 03:42	01/03/22 19:09	1
Phenol-d5	51		30 - 153				12/26/21 03:42	01/03/22 19:09	1
Terphenyl-d14 (Surr)	84		42 - 157				12/26/21 03:42	01/03/22 19:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J B	1.1	0.21	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Arsenic	9.1		0.55	0.19	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Barium	24		0.55	0.062	mg/Kg	☼	01/04/22 09:57	01/05/22 15:42	1
Beryllium	0.51		0.22	0.051	mg/Kg	☼	01/04/22 09:57	01/07/22 12:50	1
Boron	9.5		2.7	0.26	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Cadmium	0.24	B	0.11	0.020	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Calcium	61000	B	55	9.3	mg/Kg	☼	01/04/22 09:57	01/05/22 15:45	5
Chromium	12		0.55	0.27	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Cobalt	11		0.27	0.072	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Copper	28		0.55	0.15	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Iron	19000		11	5.7	mg/Kg	☼	01/04/22 09:57	01/07/22 12:50	1
Lead	13		0.27	0.13	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Magnesium	31000		5.5	2.7	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Manganese	400		0.55	0.079	mg/Kg	☼	01/04/22 09:57	01/07/22 12:50	1
Nickel	29		0.55	0.16	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Potassium	2900		27	9.7	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Selenium	0.38	J	0.55	0.32	mg/Kg	☼	01/04/22 09:57	01/05/22 15:42	1
Silver	0.51		0.27	0.071	mg/Kg	☼	01/04/22 09:57	01/07/22 12:50	1
Sodium	260		55	8.1	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Vanadium	14		0.27	0.065	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1
Zinc	63		1.1	0.48	mg/Kg	☼	01/04/22 09:57	01/04/22 19:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 17:32	1
Iron	<0.20		0.20	0.20	mg/L		12/29/21 08:46	12/30/21 17:32	1
Manganese	2.7		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:32	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-1 Dup

Lab Sample ID: 500-210003-2

Date Collected: 12/17/21 12:10

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 87.0

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		01/04/22 07:51	01/05/22 17:11	1
Barium	0.12	J	0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:31	1
Boron	0.19	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 17:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 17:11	1
Calcium	16		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 17:11	1
Chromium	0.061		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:11	1
Cobalt	0.027		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:11	1
Iron	46	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:31	1
Lead	0.025		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 17:11	1
Manganese	0.28		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:31	1
Nickel	0.070		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:11	1
Potassium	24		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 12:12	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 17:11	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:11	1
Zinc	0.14	J	0.50	0.020	mg/L		01/04/22 07:51	01/05/22 17:11	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		12/29/21 08:46	01/05/22 14:37	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		01/04/22 07:51	01/05/22 12:57	1
Thallium	0.0027		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/28/21 11:25	12/29/21 08:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0062	mg/Kg	☆	12/28/21 14:00	12/29/21 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.26	0.13	mg/Kg	☆	12/28/21 18:05	12/28/21 20:58	1
pH	7.5		0.2	0.2	SU			12/23/21 19:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-2

Lab Sample ID: 500-210003-3

Date Collected: 12/17/21 12:20

Matrix: Solid

Date Received: 12/17/21 13:40

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	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Acetone	0.0089	J	0.016	0.0070	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Trichloroethene	0.0013	J	0.0016	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/17/21 18:30	12/26/21 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	12/17/21 18:30	12/26/21 14:37	1
4-Bromofluorobenzene (Surr)	115		75 - 131	12/17/21 18:30	12/26/21 14:37	1
Dibromofluoromethane	124		75 - 126	12/17/21 18:30	12/26/21 14:37	1
Toluene-d8 (Surr)	108		75 - 124	12/17/21 18:30	12/26/21 14:37	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	☼	12/26/21 03:42	01/03/22 19:31	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-2

Lab Sample ID: 500-210003-3

Date Collected: 12/17/21 12:20

Matrix: Solid

Date Received: 12/17/21 13:40

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	<0.36		0.36	0.083	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2-Methylnaphthalene	0.0089	J	0.074	0.0067	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Acenaphthene	0.011	J	0.036	0.0065	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Chrysene	0.024	J	0.036	0.0099	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Fluorene	0.0076	J	0.036	0.0051	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Hexachlorobenzene	<0.074		0.074	0.0084	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/26/21 03:42	01/03/22 19:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-2

Lab Sample ID: 500-210003-3

Date Collected: 12/17/21 12:20

Matrix: Solid

Date Received: 12/17/21 13:40

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	<0.036		0.036	0.0094	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
Isophorone	<0.18		0.18	0.041	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
Pentachlorophenol	<0.74		0.74	0.58	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
Phenanthrene	0.050		0.036	0.0051	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
Phenol	<0.18		0.18	0.081	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
Pyrene	0.020	J	0.036	0.0072	mg/Kg	✳	12/26/21 03:42	01/03/22 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143				12/26/21 03:42	01/03/22 19:31	1
2-Fluorobiphenyl	79		43 - 145				12/26/21 03:42	01/03/22 19:31	1
2-Fluorophenol	51		31 - 166				12/26/21 03:42	01/03/22 19:31	1
Nitrobenzene-d5 (Surr)	62		37 - 147				12/26/21 03:42	01/03/22 19:31	1
Phenol-d5	24	S1-	30 - 153				12/26/21 03:42	01/03/22 19:31	1
Terphenyl-d14 (Surr)	88		42 - 157				12/26/21 03:42	01/03/22 19:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J B	1.1	0.20	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Arsenic	7.2		0.53	0.18	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Barium	37		0.53	0.060	mg/Kg	✳	01/04/22 09:57	01/05/22 15:48	1
Beryllium	0.59		0.21	0.049	mg/Kg	✳	01/04/22 09:57	01/07/22 12:54	1
Boron	8.7		2.6	0.25	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Cadmium	0.23	B	0.11	0.019	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Calcium	67000	B	53	8.9	mg/Kg	✳	01/04/22 09:57	01/05/22 15:51	5
Chromium	13		0.53	0.26	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Cobalt	11		0.26	0.069	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Copper	23		0.53	0.15	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Iron	18000		11	5.5	mg/Kg	✳	01/04/22 09:57	01/07/22 12:54	1
Lead	11		0.26	0.12	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Magnesium	27000		5.3	2.6	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Manganese	350		0.53	0.076	mg/Kg	✳	01/04/22 09:57	01/07/22 12:54	1
Nickel	27		0.53	0.15	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Potassium	2900		26	9.3	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Selenium	0.31	J	0.53	0.31	mg/Kg	✳	01/04/22 09:57	01/05/22 15:48	1
Silver	0.47		0.26	0.068	mg/Kg	✳	01/04/22 09:57	01/07/22 12:54	1
Sodium	170		53	7.8	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Thallium	<0.53		0.53	0.26	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Vanadium	15		0.26	0.062	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1
Zinc	71		1.1	0.46	mg/Kg	✳	01/04/22 09:57	01/04/22 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/04/22 07:51	01/05/22 17:14	1
Barium	<0.50		0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:35	1
Boron	0.080	J B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 17:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B01-2

Lab Sample ID: 500-210003-3

Date Collected: 12/17/21 12:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 87.8

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		01/04/22 07:51	01/05/22 17:14	1
Calcium	23		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 17:14	1
Chromium	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:14	1
Cobalt	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:14	1
Iron	0.40	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 17:14	1
Manganese	0.036		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:35	1
Nickel	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:14	1
Potassium	1.8	J	2.5	0.50	mg/L		01/04/22 07:51	01/07/22 12:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 17:14	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:14	1
Zinc	<0.50		0.50	0.020	mg/L		01/04/22 07:51	01/05/22 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:51	01/05/22 12:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/28/21 11:25	12/29/21 08:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0058	mg/Kg	⊛	12/28/21 14:00	12/29/21 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	⊛	12/28/21 18:05	12/28/21 20:59	1
pH	8.3		0.2	0.2	SU			12/23/21 19:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B02-1

Lab Sample ID: 500-210003-4

Date Collected: 12/17/21 11:10

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Acetone	<0.016		0.016	0.0068	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Chloroethane	<0.0039	*	0.0039	0.0012	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Trichloroethene	0.00072	J	0.0016	0.00053	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	✳	12/17/21 18:30	12/26/21 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		70 - 134	12/17/21 18:30	12/26/21 15:03	1
4-Bromofluorobenzene (Surr)	110		75 - 131	12/17/21 18:30	12/26/21 15:03	1
Dibromofluoromethane	121		75 - 126	12/17/21 18:30	12/26/21 15:03	1
Toluene-d8 (Surr)	107		75 - 124	12/17/21 18:30	12/26/21 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B02-1

Lab Sample ID: 500-210003-4

Date Collected: 12/17/21 11:10

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2-Methylnaphthalene	0.036	J	0.075	0.0069	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Benzo[g,h,i]perylene	0.017	J	0.037	0.012	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Chrysene	0.021	J	0.037	0.010	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Fluoranthene	0.0096	J	0.037	0.0069	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B02-1

Lab Sample ID: 500-210003-4

Date Collected: 12/17/21 11:10

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Naphthalene	0.0098	J	0.037	0.0057	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Phenanthrene	0.053		0.037	0.0052	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Phenol	<0.19		0.19	0.083	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Pyrene	0.020	J	0.037	0.0074	mg/Kg	✳	12/26/21 03:42	01/03/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143				12/26/21 03:42	01/03/22 19:53	1
2-Fluorobiphenyl	89		43 - 145				12/26/21 03:42	01/03/22 19:53	1
2-Fluorophenol	88		31 - 166				12/26/21 03:42	01/03/22 19:53	1
Nitrobenzene-d5 (Surr)	70		37 - 147				12/26/21 03:42	01/03/22 19:53	1
Phenol-d5	64		30 - 153				12/26/21 03:42	01/03/22 19:53	1
Terphenyl-d14 (Surr)	93		42 - 157				12/26/21 03:42	01/03/22 19:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J B	1.2	0.23	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Arsenic	3.7		0.58	0.20	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Barium	44		0.58	0.066	mg/Kg	✳	01/04/22 09:57	01/05/22 15:54	1
Beryllium	0.62		0.23	0.054	mg/Kg	✳	01/04/22 09:57	01/07/22 12:57	1
Boron	12		2.9	0.27	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Calcium	72000	B	58	9.9	mg/Kg	✳	01/04/22 09:57	01/05/22 15:58	5
Chromium	16		0.58	0.29	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Cobalt	8.1		0.29	0.076	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Copper	21		0.58	0.16	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Iron	17000		12	6.1	mg/Kg	✳	01/04/22 09:57	01/07/22 12:57	1
Lead	11		0.29	0.13	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Magnesium	25000		5.8	2.9	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Manganese	300		0.58	0.084	mg/Kg	✳	01/04/22 09:57	01/07/22 12:57	1
Nickel	25		0.58	0.17	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Potassium	3700		29	10	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Selenium	0.62		0.58	0.34	mg/Kg	✳	01/04/22 09:57	01/05/22 15:54	1
Silver	0.43		0.29	0.075	mg/Kg	✳	01/04/22 09:57	01/07/22 12:57	1
Sodium	620		58	8.6	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	01/04/22 09:57	01/05/22 15:54	1
Vanadium	20		0.29	0.069	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	1
Zinc	57		1.2	0.51	mg/Kg	✳	01/04/22 09:57	01/04/22 20:03	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		12/29/21 08:46	12/30/21 17:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/21 08:46	12/30/21 17:38	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/21 08:46	12/30/21 17:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B02-1

Lab Sample ID: 500-210003-4

Date Collected: 12/17/21 11:10

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		12/29/21 08:46	12/30/21 17:38	1
Manganese	2.0		0.025	0.010	mg/L		12/29/21 08:46	12/30/21 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.049	J	0.050	0.010	mg/L		01/04/22 07:51	01/05/22 17:37	1
Barium	0.61		0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:54	1
Beryllium	0.0099		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:54	1
Boron	0.35	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 17:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 17:37	1
Calcium	100		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 17:37	1
Chromium	0.19		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:37	1
Cobalt	0.058		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:37	1
Iron	180	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:54	1
Lead	0.079		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 17:37	1
Manganese	1.2		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:54	1
Nickel	0.21		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:37	1
Potassium	52		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 12:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 17:37	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:37	1
Zinc	0.47	J	0.50	0.020	mg/L		01/04/22 07:51	01/05/22 17:37	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		12/29/21 08:46	01/05/22 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:51	01/05/22 13:07	1
Thallium	0.0024		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/28/21 11:25	12/29/21 09:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0061	mg/Kg	☆	12/28/21 14:00	12/29/21 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	☆	12/29/21 18:40	12/29/21 20:53	1
pH	8.5		0.2	0.2	SU			12/23/21 19:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B02-2

Lab Sample ID: 500-210003-5

Date Collected: 12/17/21 11:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Acetone	<0.015		0.015	0.0067	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Bromomethane	<0.0038		0.0038	0.0015	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Carbon disulfide	<0.0038		0.0038	0.00080	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Chloroethane	<0.0038	*	0.0038	0.0011	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Ethylbenzene	<0.0015		0.0015	0.00074	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Trichloroethene	0.0011	J	0.0015	0.00052	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	12/17/21 18:30	12/26/21 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	12/17/21 18:30	12/26/21 15:28	1
4-Bromofluorobenzene (Surr)	114		75 - 131	12/17/21 18:30	12/26/21 15:28	1
Dibromofluoromethane	124		75 - 126	12/17/21 18:30	12/26/21 15:28	1
Toluene-d8 (Surr)	108		75 - 124	12/17/21 18:30	12/26/21 15:28	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	☼	12/26/21 03:42	01/03/22 20:15	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B02-2

Lab Sample ID: 500-210003-5

Date Collected: 12/17/21 11:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2-Methylnaphthalene	<0.073		0.073	0.0066	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Carbazole	<0.18		0.18	0.090	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Chrysene	0.021	J	0.036	0.0098	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Fluoranthene	0.0070	J	0.036	0.0067	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	✳	12/26/21 03:42	01/03/22 20:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B02-2

Lab Sample ID: 500-210003-5

Date Collected: 12/17/21 11:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
Phenanthrene	0.011	J	0.036	0.0050	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1
Pyrene	0.023	J	0.036	0.0072	mg/Kg	☼	12/26/21 03:42	01/03/22 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143	12/26/21 03:42	01/03/22 20:15	1
2-Fluorobiphenyl	82		43 - 145	12/26/21 03:42	01/03/22 20:15	1
2-Fluorophenol	85		31 - 166	12/26/21 03:42	01/03/22 20:15	1
Nitrobenzene-d5 (Surr)	65		37 - 147	12/26/21 03:42	01/03/22 20:15	1
Phenol-d5	82		30 - 153	12/26/21 03:42	01/03/22 20:15	1
Terphenyl-d14 (Surr)	87		42 - 157	12/26/21 03:42	01/03/22 20:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J B	1.1	0.21	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Arsenic	5.4		0.54	0.18	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Barium	26		0.54	0.062	mg/Kg	☼	01/04/22 09:57	01/05/22 16:01	1
Beryllium	0.52		0.22	0.050	mg/Kg	☼	01/04/22 09:57	01/07/22 13:00	1
Boron	9.4		2.7	0.25	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Cadmium	0.19	B	0.11	0.019	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Calcium	60000	B	54	9.2	mg/Kg	☼	01/04/22 09:57	01/05/22 16:04	5
Chromium	12		0.54	0.27	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Cobalt	10		0.27	0.071	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Copper	21		0.54	0.15	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Iron	17000		11	5.6	mg/Kg	☼	01/04/22 09:57	01/07/22 13:00	1
Lead	12		0.27	0.12	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Magnesium	26000		5.4	2.7	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Manganese	340		0.54	0.078	mg/Kg	☼	01/04/22 09:57	01/07/22 13:00	1
Nickel	27		0.54	0.16	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Potassium	2700		27	9.6	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	01/04/22 09:57	01/05/22 16:01	1
Silver	0.44		0.27	0.070	mg/Kg	☼	01/04/22 09:57	01/07/22 13:00	1
Sodium	170		54	8.0	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	01/04/22 09:57	01/05/22 16:01	1
Vanadium	15		0.27	0.064	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1
Zinc	62		1.1	0.47	mg/Kg	☼	01/04/22 09:57	01/04/22 20:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		12/29/21 08:46	12/30/21 17:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Client Sample ID: 2589V-12-B02-2

Lab Sample ID: 500-210003-5

Date Collected: 12/17/21 11:20

Matrix: Solid

Date Received: 12/17/21 13:40

Percent Solids: 89.4

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		01/04/22 07:51	01/05/22 17:41	1
Barium	0.056	J	0.50	0.050	mg/L		01/04/22 07:51	01/06/22 16:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/22 07:51	01/06/22 16:57	1
Boron	0.12	B	0.10	0.050	mg/L		01/04/22 07:51	01/05/22 17:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:51	01/05/22 17:41	1
Calcium	11		2.5	0.50	mg/L		01/04/22 07:51	01/05/22 17:41	1
Chromium	0.017	J	0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:41	1
Cobalt	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:41	1
Iron	13	B	0.40	0.20	mg/L		01/04/22 07:51	01/06/22 16:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/22 07:51	01/05/22 17:41	1
Manganese	0.078		0.025	0.010	mg/L		01/04/22 07:51	01/06/22 16:57	1
Nickel	0.016	J	0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:41	1
Potassium	7.2		2.5	0.50	mg/L		01/04/22 07:51	01/07/22 12:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:51	01/05/22 17:41	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:51	01/05/22 17:41	1
Zinc	0.045	J	0.50	0.020	mg/L		01/04/22 07:51	01/05/22 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:51	01/05/22 13:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/22 07:51	01/05/22 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/28/21 11:25	12/29/21 09:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0058	mg/Kg	⊛	12/28/21 14:00	12/29/21 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.13	mg/Kg	⊛	12/29/21 18:40	12/29/21 20:55	1
pH	8.0		0.2	0.2	SU			12/23/21 19:27	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210003-1

Laboratory: Eurofins Chicago

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

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

1

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CHAIN OF CUSTODY RECORD



Client Contact	Laboratory	Project Name <u>AEZ-053A</u>	500-210003 COC
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 <u>richard.wright@testamericainc.com</u>	Project No <u>PTB/WD: 184-006/053A</u>	COC No _____ of _____
		TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD _____ Other	Lab Job No <u>500-210003</u>
		Sampler: <u>S. Heinz S. Khodaei</u>	Sample Temp <u>44</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											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization

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	2589V-12-B01-1	12/17/21	1200	S	X	X					X	X	X	X	X		
2	2589V-12-B01-1 DVP	↓	1210	↓	↓	↓					↓	↓	↓	↓	↓		
3	2589V-12-B01-2	↓	1220	↓	↓	↓					↓	↓	↓	↓	↓		
4	2589V-12-B02-1	↓	1110	↓	↓	↓					↓	↓	↓	↓	↓		
5	2589V-12-B02-2	↓	1120	↓	↓	↓					↓	↓	↓	↓	↓		

Relinquished by <u>[Signature]</u>	Date/Time <u>12/17/21 1340</u>	Received by <u>Stephanie Hemondley EPA-CHI</u>	Date/Time <u>12/17/21 1340</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: FAU 2688 (Wolf Road) Office Phone Number, if available: _____

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

18552 South Wolf Road (southwest corner of intersection of I-80 and Wolf Road)

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55183 Longitude: - 87.89018
(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.): 236

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 2589V-15-B01 AND 2589V-15-B02 WERE SAMPLED ADJACENT TO SITES 2589V-15 AND 2589V-19. SEE TABLE 3f AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-210069-1.

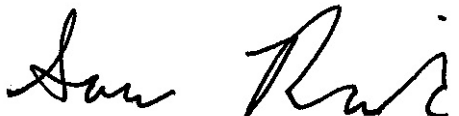
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2589V-15
Agricultural Land

Sample ID	2589V-15-B01	2589V-15-B02	Maximum Allowable Concentration				
Sample Depth (ft)	0-2	0-8					
Sample Date	12/20/2021	12/20/2021			³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
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	8.4	7.9					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

ANALYTICAL REPORT

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

Laboratory Job ID: 500-210069-1
Client Project/Site: IDOT - AE7-053

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/13/2022 1:59:13 PM

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

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Client Sample ID: 2589V-15-B01

Lab Sample ID: 500-210069-1

Date Collected: 12/20/21 09:40

Matrix: Solid

Date Received: 12/20/21 11:40

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	☼	12/20/21 15:32	12/28/21 17:46	1
1,1,2,2-Tetrachloroethane	<0.0018	+	0.0018	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
2-Hexanone	<0.0046	+	0.0046	0.0014	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	12/20/21 15:32	12/28/21 17:46	1
4-Bromofluorobenzene (Surr)	107		75 - 131	12/20/21 15:32	12/28/21 17:46	1
Dibromofluoromethane	95		75 - 126	12/20/21 15:32	12/28/21 17:46	1
Toluene-d8 (Surr)	106		75 - 124	12/20/21 15:32	12/28/21 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20	F1	0.20	0.042	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
1,4-Dichlorobenzene	<0.20	F1	0.20	0.050	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Client Sample ID: 2589V-15-B01

Lab Sample ID: 500-210069-1

Date Collected: 12/20/21 09:40

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39	F1 *-	0.39	0.089	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2,4,6-Trichlorophenol	<0.39	F1 *-	0.39	0.13	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2,4-Dichlorophenol	<0.39	*-	0.39	0.093	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2,4-Dimethylphenol	<0.39	F1 *-	0.39	0.15	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2,4-Dinitrophenol	<0.79	*-	0.79	0.69	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2,4-Dinitrotoluene	<0.20	F1	0.20	0.062	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2-Chloronaphthalene	<0.20	F1	0.20	0.043	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2-Chlorophenol	<0.20	*-	0.20	0.067	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2-Methylphenol	<0.20	F2 F1 *-	0.20	0.063	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2-Nitroaniline	<0.20	F1 F2 *-	0.20	0.053	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
3 & 4 Methylphenol	<0.20	*-	0.20	0.065	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
3,3'-Dichlorobenzidine	0.17	J F1 *-	0.20	0.055	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
3-Nitroaniline	<0.39	F1 *-	0.39	0.12	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
4-Chloro-3-methylphenol	<0.39	F1 F2 *-	0.39	0.13	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
4-Chloroaniline	<0.79	F1 *-	0.79	0.18	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
4-Nitroaniline	<0.39	F1 F2 *-	0.39	0.16	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
4-Nitrophenol	<0.79	F1 *-	0.79	0.37	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Benzo[a]anthracene	0.026	J F1	0.039	0.0053	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Benzo[a]pyrene	0.048		0.039	0.0076	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Benzo[b]fluoranthene	0.046		0.039	0.0084	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Benzo[g,h,i]perylene	0.089	F1	0.039	0.013	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Benzo[k]fluoranthene	0.036	J	0.039	0.012	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.071	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.074	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Chrysene	0.034	J	0.039	0.011	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Dibenz(a,h)anthracene	0.039		0.039	0.0075	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Dimethyl phthalate	<0.20	F1	0.20	0.051	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Fluoranthene	0.030	J	0.039	0.0072	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Hexachlorobutadiene	<0.20	F1	0.20	0.061	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Hexachlorocyclopentadiene	<0.79	F2	0.79	0.22	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Hexachloroethane	<0.20	F1	0.20	0.059	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Client Sample ID: 2589V-15-B01

Lab Sample ID: 500-210069-1

Date Collected: 12/20/21 09:40

Matrix: Solid

Date Received: 12/20/21 11:40

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	0.059	F1	0.039	0.010	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
N-Nitrosodiphenylamine	<0.20	F1	0.20	0.046	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Pentachlorophenol	<0.79	*-	0.79	0.63	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Phenanthrene	0.018	J	0.039	0.0054	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Phenol	<0.20	*-	0.20	0.087	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Pyrene	0.031	J	0.039	0.0078	mg/Kg	☼	01/03/22 19:25	01/06/22 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		31 - 143				01/03/22 19:25	01/06/22 18:10	1
2-Fluorobiphenyl	72		43 - 145				01/03/22 19:25	01/06/22 18:10	1
2-Fluorophenol	93		31 - 166				01/03/22 19:25	01/06/22 18:10	1
Nitrobenzene-d5 (Surr)	73		37 - 147				01/03/22 19:25	01/06/22 18:10	1
Phenol-d5	86		30 - 153				01/03/22 19:25	01/06/22 18:10	1
Terphenyl-d14 (Surr)	84		42 - 157				01/03/22 19:25	01/06/22 18:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.90	J B	1.1	0.22	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Arsenic	9.0		0.56	0.19	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Barium	59		0.56	0.063	mg/Kg	☼	12/29/21 10:38	12/30/21 18:45	1
Beryllium	0.97	B	0.22	0.052	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Boron	6.6		2.8	0.26	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Cadmium	0.28	B	0.11	0.020	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Calcium	10000	B	11	1.9	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Chromium	18		0.56	0.28	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Cobalt	14		0.28	0.073	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Copper	25		0.56	0.16	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Iron	22000	B ^2	11	5.8	mg/Kg	☼	12/29/21 10:38	12/30/21 18:45	1
Lead	20		0.28	0.13	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Magnesium	9100	B	5.6	2.8	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Manganese	410		0.56	0.081	mg/Kg	☼	12/29/21 10:38	12/30/21 18:45	1
Nickel	33		0.56	0.16	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Potassium	2300		28	9.8	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Selenium	0.54	J	0.56	0.33	mg/Kg	☼	12/29/21 10:38	12/30/21 18:45	1
Silver	0.52		0.28	0.072	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Sodium	1100		56	8.2	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Vanadium	19		0.28	0.066	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	1
Zinc	62		1.1	0.49	mg/Kg	☼	12/29/21 10:38	12/29/21 21:59	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		01/03/22 08:26	01/03/22 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/03/22 08:26	01/03/22 17:53	1
Chromium	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:53	1
Iron	<0.40		0.40	0.20	mg/L		01/03/22 08:26	01/03/22 17:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Client Sample ID: 2589V-15-B01

Lab Sample ID: 500-210069-1

Date Collected: 12/20/21 09:40

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 82.3

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		01/03/22 08:26	01/03/22 17:53	1
Manganese	0.69		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:53	1
Nickel	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.14		0.050	0.010	mg/L		01/04/22 07:53	01/05/22 18:14	1
Barium	0.94		0.50	0.050	mg/L		01/04/22 07:53	01/07/22 14:47	1
Beryllium	0.012		0.0040	0.0040	mg/L		01/04/22 07:53	01/07/22 14:47	1
Boron	0.30	B	0.10	0.050	mg/L		01/04/22 07:53	01/05/22 18:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:53	01/05/22 18:14	1
Calcium	32		2.5	0.50	mg/L		01/04/22 07:53	01/05/22 18:14	1
Chromium	0.28		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:14	1
Cobalt	0.086		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:14	1
Iron	320		0.40	0.20	mg/L		01/04/22 07:53	01/07/22 14:47	1
Lead	0.15		0.0075	0.0075	mg/L		01/04/22 07:53	01/05/22 18:14	1
Manganese	1.6		0.025	0.010	mg/L		01/04/22 07:53	01/07/22 21:16	1
Nickel	0.38		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:14	1
Potassium	57		2.5	0.50	mg/L		01/04/22 07:53	01/07/22 21:16	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:53	01/05/22 18:14	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:14	1
Zinc	0.91		0.50	0.020	mg/L		01/04/22 07:53	01/05/22 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/03/22 08:26	01/10/22 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:53	01/07/22 14:04	1
Thallium	0.0082		0.0020	0.0020	mg/L		01/04/22 07:53	01/07/22 14:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/21 09:15	01/03/22 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0066	mg/Kg	✱	12/30/21 12:40	01/03/22 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28	^	0.28	0.14	mg/Kg	✱	01/03/22 16:38	01/03/22 18:24	1
pH	8.4		0.2	0.2	SU			12/26/21 18:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Client Sample ID: 2589V-15-B02

Lab Sample ID: 500-210069-2

Date Collected: 12/20/21 09:30

Matrix: Solid

Date Received: 12/20/21 11:40

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	0.00061	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
1,1,1,2-Tetrachloroethane	<0.0018	+	0.0018	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
2-Hexanone	<0.0045	+	0.0045	0.0014	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	12/20/21 15:32	12/28/21 18:12	1
4-Bromofluorobenzene (Surr)	105		75 - 131	12/20/21 15:32	12/28/21 18:12	1
Dibromofluoromethane	95		75 - 126	12/20/21 15:32	12/28/21 18:12	1
Toluene-d8 (Surr)	103		75 - 124	12/20/21 15:32	12/28/21 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Client Sample ID: 2589V-15-B02

Lab Sample ID: 500-210069-2

Date Collected: 12/20/21 09:30

Matrix: Solid

Date Received: 12/20/21 11:40

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	<0.40	*-	0.40	0.093	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2,4,6-Trichlorophenol	<0.40	*-	0.40	0.14	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2,4-Dichlorophenol	<0.40	*-	0.40	0.097	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2,4-Dimethylphenol	<0.40	*-	0.40	0.15	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2,4-Dinitrophenol	<0.82	*-	0.82	0.72	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2-Chlorophenol	<0.20	*-	0.20	0.070	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2-Methylphenol	<0.20	*-	0.20	0.065	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2-Nitroaniline	<0.20	*-	0.20	0.055	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
3 & 4 Methylphenol	<0.20	*-	0.20	0.068	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
3,3'-Dichlorobenzidine	<0.20	*-	0.20	0.057	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
3-Nitroaniline	<0.40	*-	0.40	0.13	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
4-Chloro-3-methylphenol	<0.40	*-	0.40	0.14	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
4-Chloroaniline	<0.82	*-	0.82	0.19	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
4-Nitroaniline	<0.40	*-	0.40	0.17	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
4-Nitrophenol	<0.82	*-	0.82	0.39	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Benzo[a]anthracene	0.017	J	0.040	0.0055	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Benzo[a]pyrene	0.013	J	0.040	0.0079	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Benzo[b]fluoranthene	0.014	J	0.040	0.0088	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Benzo[g,h,i]perylene	0.096		0.040	0.013	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Benzo[k]fluoranthene	0.013	J	0.040	0.012	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Chrysene	0.019	J	0.040	0.011	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Dibenz(a,h)anthracene	0.034	J	0.040	0.0079	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Di-n-octyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Fluoranthene	0.026	J	0.040	0.0076	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	✳	01/03/22 19:25	01/06/22 19:13	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Client Sample ID: 2589V-15-B02

Lab Sample ID: 500-210069-2

Date Collected: 12/20/21 09:30

Matrix: Solid

Date Received: 12/20/21 11:40

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	0.053		0.040	0.011	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
Pentachlorophenol	<0.82	*-	0.82	0.65	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
Phenanthrene	0.012	J	0.040	0.0057	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
Phenol	<0.20	*-	0.20	0.091	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
Pyrene	0.027	J	0.040	0.0081	mg/Kg	☼	01/03/22 19:25	01/06/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		31 - 143				01/03/22 19:25	01/06/22 19:13	1
2-Fluorobiphenyl	75		43 - 145				01/03/22 19:25	01/06/22 19:13	1
2-Fluorophenol	92		31 - 166				01/03/22 19:25	01/06/22 19:13	1
Nitrobenzene-d5 (Surr)	70		37 - 147				01/03/22 19:25	01/06/22 19:13	1
Phenol-d5	81		30 - 153				01/03/22 19:25	01/06/22 19:13	1
Terphenyl-d14 (Surr)	88		42 - 157				01/03/22 19:25	01/06/22 19:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.3	0.24	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Arsenic	11		0.63	0.21	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Barium	65		0.63	0.071	mg/Kg	☼	12/29/21 10:38	12/30/21 18:48	1
Beryllium	1.2	B	0.25	0.058	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Boron	6.2		3.1	0.29	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Cadmium	0.28	B	0.13	0.023	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Calcium	5000	B	13	2.1	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Chromium	20		0.63	0.31	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Cobalt	16		0.31	0.082	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Copper	27		0.63	0.18	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Iron	25000	B ^2	13	6.5	mg/Kg	☼	12/29/21 10:38	12/30/21 18:48	1
Lead	22		0.31	0.14	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Magnesium	6400	B	6.3	3.1	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Manganese	280		0.63	0.091	mg/Kg	☼	12/29/21 10:38	12/30/21 18:48	1
Nickel	37		0.63	0.18	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Potassium	2500		31	11	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Selenium	0.74		0.63	0.37	mg/Kg	☼	12/29/21 10:38	12/30/21 18:48	1
Silver	0.47		0.31	0.081	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Sodium	1400		63	9.3	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Vanadium	24		0.31	0.074	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	1
Zinc	72		1.3	0.55	mg/Kg	☼	12/29/21 10:38	12/29/21 22:02	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		01/03/22 08:26	01/03/22 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/03/22 08:26	01/03/22 17:56	1
Chromium	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:56	1
Iron	0.57		0.40	0.20	mg/L		01/03/22 08:26	01/03/22 17:56	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Client Sample ID: 2589V-15-B02

Lab Sample ID: 500-210069-2

Date Collected: 12/20/21 09:30

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0076		0.0075	0.0075	mg/L		01/03/22 08:26	01/03/22 17:56	1
Manganese	3.8		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:56	1
Nickel	0.014	J	0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.14		0.050	0.010	mg/L		01/04/22 07:53	01/05/22 18:17	1
Barium	1.3		0.50	0.050	mg/L		01/04/22 07:53	01/07/22 14:50	1
Beryllium	0.016		0.0040	0.0040	mg/L		01/04/22 07:53	01/07/22 14:50	1
Boron	0.29	B	0.10	0.050	mg/L		01/04/22 07:53	01/05/22 18:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:53	01/05/22 18:17	1
Calcium	29		2.5	0.50	mg/L		01/04/22 07:53	01/05/22 18:17	1
Chromium	0.33		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:17	1
Cobalt	0.18		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:17	1
Iron	370		0.40	0.20	mg/L		01/04/22 07:53	01/07/22 14:50	1
Lead	0.24		0.0075	0.0075	mg/L		01/04/22 07:53	01/05/22 18:17	1
Manganese	2.6		0.025	0.010	mg/L		01/04/22 07:53	01/07/22 21:29	1
Nickel	0.55		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:17	1
Potassium	62		2.5	0.50	mg/L		01/04/22 07:53	01/07/22 21:29	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:53	01/05/22 18:17	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:17	1
Zinc	1.0		0.50	0.020	mg/L		01/04/22 07:53	01/05/22 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/03/22 08:26	01/10/22 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:53	01/07/22 14:06	1
Thallium	0.010		0.0020	0.0020	mg/L		01/04/22 07:53	01/07/22 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/21 09:15	01/03/22 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.0066	mg/Kg	✱	12/30/21 12:40	01/03/22 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30	^	0.30	0.15	mg/Kg	✱	01/03/22 16:38	01/03/22 18:26	1
pH	7.9		0.2	0.2	SU			12/26/21 18:25	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
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.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

Glossary

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

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210069-1

Laboratory: Eurofins Chicago

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

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

- 1
- 2
- 3
- 4
- 5
- 6
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- 14
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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>AE7-053A</u> <small>500-210069 COC</small> Project No <u>PTB/WO: 184-006/053A</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>S. Hains, S. Rhodes</u>	COC No <u>1</u> of <u>1</u> Lab Job No <u>500-210069</u> Sample Temp <u>5.3</u>
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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			
1	2589V-15-B01	12/20/21	0940	S	X	X					X	X	X	X	X				
2	2589V-15-B02	12/20/21 0930	0930	S	X	X					X	X	X	X	X				
3	Trip Blank #2	12/20/21			X														

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

Relinquished by	Date/Time 12/20/21 1140	Received by	Date/Time 12/20/21 1140
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: FAU 2688 (Wolf Road) Office Phone Number, if available: _____

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

18604 South Wolf Road

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55106 Longitude: -87.89016

(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.): 83

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 2589V-16-B02 WAS SAMPLED ADJACENT TO SITE 2589V-16. 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 NUMBER: 500-210068-1.

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

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2589V-16
 Agricultural Building and
 Agricultural Land

Sample ID	2589V-16-B02	Maximum Allowable Concentration					
Sample Depth (ft)	0-2	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area	
Sample Date	12/20/2021						
PID	0						
Sample pH	7.8						
Matrix	Soil						
Semivolatile Organic Compounds (mg/kg)							
Benzo(a)pyrene	0.13	1,2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-210068-1
Client Project/Site: IDOT - AE7-053

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/10/2022 2:57:15 PM

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

LINKS

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results through
TotalAccess

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The
Expert**

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www.eurofinsus.com/Env

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210068-1

Client Sample ID: 2589V-16-B02

Lab Sample ID: 500-210068-2

Date Collected: 12/20/21 09:50

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
1,1,1,2-Tetrachloroethane	<0.0018	+	0.0018	0.00057	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
2-Hexanone	<0.0045	+	0.0045	0.0014	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/20/21 15:32	12/28/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	12/20/21 15:32	12/28/21 17:20	1
4-Bromofluorobenzene (Surr)	104		75 - 131	12/20/21 15:32	12/28/21 17:20	1
Dibromofluoromethane	95		75 - 126	12/20/21 15:32	12/28/21 17:20	1
Toluene-d8 (Surr)	106		75 - 124	12/20/21 15:32	12/28/21 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/27/21 07:29	12/30/21 20:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/27/21 07:29	12/30/21 20:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/27/21 07:29	12/30/21 20:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/27/21 07:29	12/30/21 20:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/27/21 07:29	12/30/21 20:02	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210068-1

Client Sample ID: 2589V-16-B02

Lab Sample ID: 500-210068-2

Date Collected: 12/20/21 09:50

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Acenaphthylene	0.031	J	0.038	0.0050	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Anthracene	0.022	J	0.038	0.0064	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Benzo[a]anthracene	0.16		0.038	0.0052	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Benzo[a]pyrene	0.13		0.038	0.0074	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Benzo[b]fluoranthene	0.18		0.038	0.0083	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Benzo[g,h,i]perylene	0.055		0.038	0.012	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Benzo[k]fluoranthene	0.069		0.038	0.011	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Chrysene	0.16		0.038	0.010	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Dibenz(a,h)anthracene	0.020	J	0.038	0.0074	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Fluoranthene	0.27		0.038	0.0071	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210068-1

Client Sample ID: 2589V-16-B02

Lab Sample ID: 500-210068-2

Date Collected: 12/20/21 09:50

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.064		0.038	0.0099	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Phenanthrene	0.023	J	0.038	0.0053	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Phenol	<0.19		0.19	0.085	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Pyrene	0.22		0.038	0.0076	mg/Kg	✳	12/27/21 07:29	12/30/21 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	29	S1-	31 - 143				12/27/21 07:29	12/30/21 20:02	1
2-Fluorobiphenyl	79		43 - 145				12/27/21 07:29	12/30/21 20:02	1
2-Fluorophenol	81		31 - 166				12/27/21 07:29	12/30/21 20:02	1
Nitrobenzene-d5 (Surr)	67		37 - 147				12/27/21 07:29	12/30/21 20:02	1
Phenol-d5	55		30 - 153				12/27/21 07:29	12/30/21 20:02	1
Terphenyl-d14 (Surr)	94		42 - 157				12/27/21 07:29	12/30/21 20:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.92	J B	1.2	0.23	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Arsenic	9.7		0.60	0.20	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Barium	52		0.60	0.068	mg/Kg	✳	12/29/21 10:38	12/30/21 18:42	1
Beryllium	0.95	B	0.24	0.056	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Boron	7.0		3.0	0.28	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Cadmium	0.28	B	0.12	0.021	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Calcium	16000	B	12	2.0	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Chromium	18		0.60	0.29	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Cobalt	17		0.30	0.078	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Copper	24		0.60	0.17	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Iron	23000	B ^2	12	6.2	mg/Kg	✳	12/29/21 10:38	12/30/21 18:42	1
Lead	19		0.30	0.14	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Magnesium	12000	B	6.0	3.0	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Manganese	420		0.60	0.086	mg/Kg	✳	12/29/21 10:38	12/30/21 18:42	1
Nickel	32		0.60	0.17	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Potassium	2300		30	11	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Selenium	<0.60		0.60	0.35	mg/Kg	✳	12/29/21 10:38	12/30/21 18:42	1
Silver	0.47		0.30	0.077	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Sodium	1300		60	8.8	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Thallium	<0.60		0.60	0.30	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Vanadium	21		0.30	0.070	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	1
Zinc	65		1.2	0.52	mg/Kg	✳	12/29/21 10:38	12/29/21 21:56	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		01/03/22 08:26	01/03/22 17:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/03/22 08:26	01/03/22 17:49	1
Chromium	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:49	1
Iron	0.27	J	0.40	0.20	mg/L		01/03/22 08:26	01/03/22 17:49	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210068-1

Client Sample ID: 2589V-16-B02

Lab Sample ID: 500-210068-2

Date Collected: 12/20/21 09:50

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 83.7

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		01/03/22 08:26	01/03/22 17:49	1
Manganese	0.90		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:49	1
Nickel	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.050	0.010	mg/L		01/04/22 07:53	01/05/22 18:04	1
Barium	0.70		0.50	0.050	mg/L		01/04/22 07:53	01/07/22 14:44	1
Beryllium	0.011		0.0040	0.0040	mg/L		01/04/22 07:53	01/07/22 14:44	1
Boron	0.31	B	0.10	0.050	mg/L		01/04/22 07:53	01/05/22 18:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:53	01/05/22 18:04	1
Calcium	35		2.5	0.50	mg/L		01/04/22 07:53	01/05/22 18:04	1
Chromium	0.25		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:04	1
Cobalt	0.076		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:04	1
Iron	290		0.40	0.20	mg/L		01/04/22 07:53	01/07/22 14:44	1
Lead	0.13		0.0075	0.0075	mg/L		01/04/22 07:53	01/05/22 18:04	1
Manganese	1.2		0.025	0.010	mg/L		01/04/22 07:53	01/07/22 21:12	1
Nickel	0.32		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:04	1
Potassium	59		2.5	0.50	mg/L		01/04/22 07:53	01/07/22 21:12	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:53	01/05/22 18:04	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:04	1
Zinc	0.87		0.50	0.020	mg/L		01/04/22 07:53	01/05/22 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/03/22 08:26	01/10/22 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:53	01/07/22 14:02	1
Thallium	0.0099		0.0020	0.0020	mg/L		01/04/22 07:53	01/07/22 14:02	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		12/30/21 09:15	01/03/22 09:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0061	mg/Kg	✱	12/30/21 12:40	01/03/22 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28	^	0.28	0.14	mg/Kg	✱	01/03/22 16:38	01/03/22 18:22	1
pH	7.8		0.2	0.2	SU			12/26/21 18:17	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210068-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

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.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

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

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

Glossary

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

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210068-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210068-1

Laboratory: Eurofins Chicago

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

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

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CHAIN OF CUSTODY RECORD



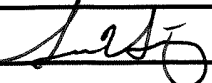
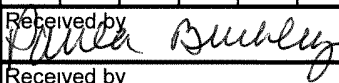
Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Laboratory Lab Test America - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Dick Wright email richard.wright@testamericainc.com	Project Name <u>AE7-053A</u> 500-210068 COC Project No <u>PTB/WO: 184-006/053A</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>S. Heim, S. Kneel</u>	COC No <u>1</u> of <u>1</u> Lab Job No. <u>500-210068</u> Sample Temp <u>53</u>
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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												
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	

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	2589V-16-B01	12/20/21	1000	S	X	X					X	X	X	X	X				
2	2589V-16-B02	12/20/21	0950	S	X	X					X	X	X	X	X				

Relinquished by 	Date/Time 12/20/21 1140	Received by  GAT CH	Date/Time 12/20/21 1140
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: FAU 2688 (Wolf Road) Office Phone Number, if available: _____

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

11216 West 187th Street (northwest corner of intersection of 187th Street and Wolf Road)

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55026 Longitude: -87.89023
(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.): 3

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 2589V-17-B01 AND 2589V-17-B02 WERE SAMPLED ADJACENT TO SITES 2589V-17 AND 2589V-18. 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: 500-210070-1.

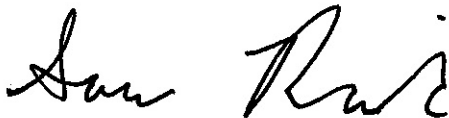
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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

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

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

Savo Radulovic
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Feb 1, 2022
Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2589V-17

Residence

Sample ID	2589V-17-B01	2589V-17-B02	Maximum Allowable Concentration						
Sample Depth (ft)	0-2	0-2	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area		
Sample Date	12/20/2021	12/20/2021							
PID	0	0							
Sample pH	8.4	8.5							
Matrix	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)									
Benzo(a)pyrene	0.3	1.2	0.17	1.2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-210070-1
Client Project/Site: IDOT - AE7-053

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
1/13/2022 2:01:42 PM

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

LINKS

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www.eurofinsus.com/Env

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Client Sample ID: 2589V-17-B01

Lab Sample ID: 500-210070-1

Date Collected: 12/20/21 11:00

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 87.7

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	0.00064	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
1,1,1,2-Tetrachloroethane	<0.0019	+	0.0019	0.00061	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
2-Hexanone	<0.0048	+	0.0048	0.0015	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/20/21 15:32	12/28/21 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	12/20/21 15:32	12/28/21 19:05	1
4-Bromofluorobenzene (Surr)	102		75 - 131	12/20/21 15:32	12/28/21 19:05	1
Dibromofluoromethane	91		75 - 126	12/20/21 15:32	12/28/21 19:05	1
Toluene-d8 (Surr)	105		75 - 124	12/20/21 15:32	12/28/21 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Client Sample ID: 2589V-17-B01

Lab Sample ID: 500-210070-1

Date Collected: 12/20/21 11:00

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37	*-	0.37	0.084	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2,4,6-Trichlorophenol	<0.37	*-	0.37	0.13	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2,4-Dichlorophenol	<0.37	*-	0.37	0.087	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2,4-Dimethylphenol	<0.37	*-	0.37	0.14	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2,4-Dinitrophenol	<0.74	*-	0.74	0.65	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2-Chlorophenol	<0.18	*-	0.18	0.063	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2-Methylnaphthalene	0.010	J	0.074	0.0068	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2-Methylphenol	<0.18	*-	0.18	0.059	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2-Nitroaniline	<0.18	*-	0.18	0.049	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
3 & 4 Methylphenol	<0.18	*-	0.18	0.061	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
3,3'-Dichlorobenzidine	<0.18	*-	0.18	0.051	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
3-Nitroaniline	<0.37	*-	0.37	0.11	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
4-Chloro-3-methylphenol	<0.37	*-	0.37	0.13	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
4-Chloroaniline	<0.74	*-	0.74	0.17	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
4-Nitroaniline	<0.37	*-	0.37	0.15	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
4-Nitrophenol	<0.74	*-	0.74	0.35	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Acenaphthylene	0.022	J	0.037	0.0048	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Anthracene	0.041		0.037	0.0061	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Benzo[a]anthracene	0.18		0.037	0.0049	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Benzo[a]pyrene	0.30	*3	0.037	0.0071	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Benzo[b]fluoranthene	0.43	*3	0.037	0.0079	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Benzo[g,h,i]perylene	0.14	*3	0.037	0.012	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Benzo[k]fluoranthene	0.17	*3	0.037	0.011	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.038	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Chrysene	0.24		0.037	0.010	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Dibenz(a,h)anthracene	0.031	J *3	0.037	0.0071	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Fluoranthene	0.34		0.037	0.0068	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Fluorene	0.0060	J	0.037	0.0052	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	01/03/22 19:25	01/06/22 19:33	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Client Sample ID: 2589V-17-B01

Lab Sample ID: 500-210070-1

Date Collected: 12/20/21 11:00

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 87.7

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	0.15	*3	0.037	0.0095	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
Isophorone	<0.18		0.18	0.041	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
Naphthalene	0.012	J	0.037	0.0057	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
Pentachlorophenol	<0.74	*-	0.74	0.59	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
Phenanthrene	0.14		0.037	0.0051	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
Phenol	<0.18	*-	0.18	0.082	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
Pyrene	0.35		0.037	0.0073	mg/Kg	✳	01/03/22 19:25	01/06/22 19:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		31 - 143				01/03/22 19:25	01/06/22 19:33	1
2-Fluorobiphenyl	77		43 - 145				01/03/22 19:25	01/06/22 19:33	1
2-Fluorophenol	81		31 - 166				01/03/22 19:25	01/06/22 19:33	1
Nitrobenzene-d5 (Surr)	59		37 - 147				01/03/22 19:25	01/06/22 19:33	1
Phenol-d5	72		30 - 153				01/03/22 19:25	01/06/22 19:33	1
Terphenyl-d14 (Surr)	107		42 - 157				01/03/22 19:25	01/06/22 19:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.79	J B	1.0	0.20	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Arsenic	6.7		0.52	0.18	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Barium	56		0.52	0.060	mg/Kg	✳	01/04/22 09:57	01/07/22 13:03	1
Beryllium	0.61		0.21	0.049	mg/Kg	✳	01/04/22 09:57	01/07/22 13:03	1
Boron	8.4		2.6	0.24	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Cadmium	0.57	B	0.10	0.019	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Calcium	47000	B	52	8.9	mg/Kg	✳	01/04/22 09:57	01/05/22 16:17	5
Chromium	14		0.52	0.26	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Cobalt	11		0.26	0.068	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Copper	24		0.52	0.15	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Iron	18000		10	5.4	mg/Kg	✳	01/04/22 09:57	01/07/22 13:03	1
Lead	41		0.26	0.12	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Magnesium	25000		5.2	2.6	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Manganese	360		0.52	0.076	mg/Kg	✳	01/04/22 09:57	01/07/22 13:03	1
Nickel	27		0.52	0.15	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Potassium	2500		26	9.2	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Selenium	0.86		0.52	0.31	mg/Kg	✳	01/04/22 09:57	01/05/22 16:13	1
Silver	0.46		0.26	0.067	mg/Kg	✳	01/04/22 09:57	01/07/22 13:03	1
Sodium	400		52	7.7	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Thallium	<0.52		0.52	0.26	mg/Kg	✳	01/04/22 09:57	01/05/22 16:13	1
Vanadium	18		0.26	0.062	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1
Zinc	77		1.0	0.46	mg/Kg	✳	01/04/22 09:57	01/04/22 20:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/03/22 08:26	01/03/22 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/03/22 08:26	01/03/22 17:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:59	1
Iron	<0.40		0.40	0.20	mg/L		01/03/22 08:26	01/03/22 17:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Client Sample ID: 2589V-17-B01

Lab Sample ID: 500-210070-1

Date Collected: 12/20/21 11:00

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 87.7

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		01/03/22 08:26	01/03/22 17:59	1
Manganese	0.20		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:59	1
Nickel	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.051		0.050	0.010	mg/L		01/04/22 07:53	01/05/22 18:20	1
Barium	0.44	J	0.50	0.050	mg/L		01/04/22 07:53	01/07/22 15:00	1
Beryllium	0.0050		0.0040	0.0040	mg/L		01/04/22 07:53	01/07/22 15:00	1
Boron	0.22	B	0.10	0.050	mg/L		01/04/22 07:53	01/05/22 18:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:53	01/05/22 18:20	1
Calcium	28		2.5	0.50	mg/L		01/04/22 07:53	01/05/22 18:20	1
Chromium	0.13		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:20	1
Cobalt	0.037		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:20	1
Iron	130		0.40	0.20	mg/L		01/04/22 07:53	01/07/22 15:00	1
Lead	0.13		0.0075	0.0075	mg/L		01/04/22 07:53	01/05/22 18:20	1
Manganese	0.69		0.025	0.010	mg/L		01/04/22 07:53	01/07/22 21:32	1
Nickel	0.13		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:20	1
Potassium	36		2.5	0.50	mg/L		01/04/22 07:53	01/07/22 21:32	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:53	01/05/22 18:20	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:20	1
Zinc	0.46	J	0.50	0.020	mg/L		01/04/22 07:53	01/05/22 18:20	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		01/03/22 08:26	01/10/22 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/04/22 07:53	01/07/22 14:08	1
Thallium	0.0031		0.0020	0.0020	mg/L		01/04/22 07:53	01/07/22 14:08	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		12/30/21 09:15	01/03/22 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.017	0.0056	mg/Kg	⊛	12/30/21 12:40	01/03/22 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25	^	0.25	0.13	mg/Kg	⊛	01/03/22 16:38	01/03/22 18:27	1
pH	8.4		0.2	0.2	SU			12/26/21 18:30	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Client Sample ID: 2589V-17-B02

Lab Sample ID: 500-210070-2

Date Collected: 12/20/21 10:10

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 85.9

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	☼	12/20/21 15:32	12/28/21 19:31	1
1,1,1,2-Tetrachloroethane	<0.0017	*3 *+	0.0017	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
2-Hexanone	<0.0041	*+	0.0041	0.0013	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	12/20/21 15:32	12/28/21 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	12/20/21 15:32	12/28/21 19:31	1
4-Bromofluorobenzene (Surr)	109	*3	75 - 131	12/20/21 15:32	12/28/21 19:31	1
Dibromofluoromethane	93		75 - 126	12/20/21 15:32	12/28/21 19:31	1
Toluene-d8 (Surr)	107		75 - 124	12/20/21 15:32	12/28/21 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Client Sample ID: 2589V-17-B02

Lab Sample ID: 500-210070-2

Date Collected: 12/20/21 10:10

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38	*-	0.38	0.087	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2,4,6-Trichlorophenol	<0.38	*-	0.38	0.13	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2,4-Dichlorophenol	<0.38	*-	0.38	0.091	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2,4-Dimethylphenol	<0.38	*-	0.38	0.15	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2,4-Dinitrophenol	<0.77	*-	0.77	0.67	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2-Chlorophenol	<0.19	*-	0.19	0.065	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2-Methylphenol	<0.19	*-	0.19	0.061	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2-Nitroaniline	<0.19	*-	0.19	0.051	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
3 & 4 Methylphenol	<0.19	*-	0.19	0.064	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
3,3'-Dichlorobenzidine	<0.19	*-	0.19	0.054	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
3-Nitroaniline	<0.38	*-	0.38	0.12	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
4-Chloro-3-methylphenol	<0.38	*-	0.38	0.13	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
4-Chloroaniline	<0.77	*-	0.77	0.18	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
4-Nitroaniline	<0.38	*-	0.38	0.16	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
4-Nitrophenol	<0.77	*-	0.77	0.36	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Acenaphthylene	0.012	J	0.038	0.0050	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Anthracene	0.019	J	0.038	0.0064	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Benzo[a]anthracene	0.10		0.038	0.0051	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Benzo[a]pyrene	0.17	*3	0.038	0.0074	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Benzo[b]fluoranthene	0.25	*3	0.038	0.0083	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Benzo[g,h,i]perylene	0.089	*3	0.038	0.012	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Benzo[k]fluoranthene	0.12	*3	0.038	0.011	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Chrysene	0.14		0.038	0.010	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Dibenz(a,h)anthracene	0.011	J *3	0.038	0.0074	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Fluoranthene	0.22		0.038	0.0071	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Client Sample ID: 2589V-17-B02

Lab Sample ID: 500-210070-2

Date Collected: 12/20/21 10:10

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 85.9

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	0.078	*3	0.038	0.0099	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Pentachlorophenol	<0.77	*-	0.77	0.61	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Phenanthrene	0.083		0.038	0.0053	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Phenol	<0.19	*-	0.19	0.085	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Pyrene	0.28		0.038	0.0076	mg/Kg	☼	01/03/22 19:25	01/06/22 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	49		31 - 143				01/03/22 19:25	01/06/22 19:54	1
2-Fluorobiphenyl	88		43 - 145				01/03/22 19:25	01/06/22 19:54	1
2-Fluorophenol	106		31 - 166				01/03/22 19:25	01/06/22 19:54	1
Nitrobenzene-d5 (Surr)	76		37 - 147				01/03/22 19:25	01/06/22 19:54	1
Phenol-d5	51		30 - 153				01/03/22 19:25	01/06/22 19:54	1
Terphenyl-d14 (Surr)	135		42 - 157				01/03/22 19:25	01/06/22 19:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.79	J B	1.1	0.22	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Arsenic	7.7		0.56	0.19	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Barium	55		0.56	0.064	mg/Kg	☼	01/04/22 09:57	01/07/22 13:06	1
Beryllium	0.68		0.22	0.053	mg/Kg	☼	01/04/22 09:57	01/07/22 13:06	1
Boron	7.5		2.8	0.26	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Cadmium	0.23	B	0.11	0.020	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Calcium	50000	B	56	9.5	mg/Kg	☼	01/04/22 09:57	01/05/22 16:23	5
Chromium	16		0.56	0.28	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Cobalt	13		0.28	0.074	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Copper	21		0.56	0.16	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Iron	19000		11	5.8	mg/Kg	☼	01/04/22 09:57	01/07/22 13:06	1
Lead	27		0.28	0.13	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Magnesium	27000		5.6	2.8	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Manganese	440		0.56	0.082	mg/Kg	☼	01/04/22 09:57	01/07/22 13:06	1
Nickel	26		0.56	0.16	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Potassium	2500		28	10	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/04/22 09:57	01/05/22 16:20	1
Silver	0.52		0.28	0.073	mg/Kg	☼	01/04/22 09:57	01/07/22 13:06	1
Sodium	520		56	8.3	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Vanadium	20		0.28	0.066	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	1
Zinc	66		1.1	0.49	mg/Kg	☼	01/04/22 09:57	01/04/22 20:12	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		01/03/22 08:26	01/03/22 18:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/03/22 08:26	01/03/22 18:03	1
Chromium	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 18:03	1
Iron	0.37	J	0.40	0.20	mg/L		01/03/22 08:26	01/03/22 18:03	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Client Sample ID: 2589V-17-B02

Lab Sample ID: 500-210070-2

Date Collected: 12/20/21 10:10

Matrix: Solid

Date Received: 12/20/21 11:40

Percent Solids: 85.9

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		01/03/22 08:26	01/03/22 18:03	1
Manganese	0.74		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 18:03	1
Nickel	<0.025		0.025	0.010	mg/L		01/03/22 08:26	01/03/22 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.068		0.050	0.010	mg/L		01/04/22 07:53	01/05/22 18:23	1
Barium	0.48	J	0.50	0.050	mg/L		01/04/22 07:53	01/07/22 15:03	1
Beryllium	0.0064		0.0040	0.0040	mg/L		01/04/22 07:53	01/07/22 15:03	1
Boron	0.24	B	0.10	0.050	mg/L		01/04/22 07:53	01/05/22 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/04/22 07:53	01/05/22 18:23	1
Calcium	30		2.5	0.50	mg/L		01/04/22 07:53	01/05/22 18:23	1
Chromium	0.15		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:23	1
Cobalt	0.048		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:23	1
Iron	160		0.40	0.20	mg/L		01/04/22 07:53	01/07/22 15:03	1
Lead	0.14		0.0075	0.0075	mg/L		01/04/22 07:53	01/05/22 18:23	1
Manganese	0.80		0.025	0.010	mg/L		01/04/22 07:53	01/07/22 21:36	1
Nickel	0.17		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:23	1
Potassium	40		2.5	0.50	mg/L		01/04/22 07:53	01/07/22 21:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/04/22 07:53	01/05/22 18:23	1
Silver	<0.025		0.025	0.010	mg/L		01/04/22 07:53	01/05/22 18:23	1
Zinc	0.49	J	0.50	0.020	mg/L		01/04/22 07:53	01/05/22 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/03/22 08:26	01/10/22 13:44	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		01/04/22 07:53	01/07/22 14:14	1
Thallium	0.0039		0.0020	0.0020	mg/L		01/04/22 07:53	01/07/22 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/21 09:15	01/03/22 10:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0057	mg/Kg	⊛	12/30/21 12:40	01/03/22 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27	^	0.27	0.14	mg/Kg	⊛	01/03/22 16:38	01/03/22 18:33	1
pH	8.5		0.2	0.2	SU			12/26/21 18:32	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.

GC/MS Semi VOA

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

Glossary

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

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-053

Job ID: 500-210070-1

Laboratory: Eurofins Chicago

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

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

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



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>AET-053A</u> Project No <u>PTB/WO: 184-006/053A</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>S. Herin, S. Khodari</u>	COC No _____ of _____ Lab Job No <u>500-210070</u> Sample Temp <u>5.3</u>
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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										
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids

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	2589V-17-B01	12/20/21	1100	S	X	X					X	X	X	X	X		
2	2589V-17-B02	12/20/21	1010	S	X	X					X	X	X	X	X		

Relinquished by <u>[Signature]</u>	Date/Time <u>12/20/21 1140</u>	Received by <u>[Signature]</u>	Date/Time <u>12/20/21 1140</u>
Relinquished by	Date/Time	Received by	Date/Time
Relinquished by	Date/Time	Received by	Date/Time