



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: FAI 57 (I-57) Office Phone Number, if available: _____

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

6500 block of West Pauling Road (northwest corner of Pauling Road and Ridgeland Avenue)

City: Unincorporated State: IL Zip Code: 60449

County: Will Township: Monee

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

Latitude: 41.39778 Longitude: - 87.77041

(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.): 147

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 3692V-2-B01 WAS SAMPLED AT SITE 3692V-2. SEE TABLE 3a AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253699-1.

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

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

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

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

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Sep 27, 2024

Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 3692V-2
Agricultural Land

Sample ID		3692V-2-B01				
Sample Depth (ft)		0-2				
Sample Date		7/17/2024				
PID		0				
Sample pH		7.8				
Matrix		Soil				
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 8:08:07 AM

JOB DESCRIPTION

IDOT - AE8-030A

JOB NUMBER

500-253699-1

Eurofins Chicago

Job Notes

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

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

Authorization



Generated
8/6/2024 8:08:07 AM

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253699-1

Client Sample ID: 3692V-2-B01

Lab Sample ID: 500-253699-1

Date Collected: 07/17/24 12:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00073	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00090	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00068	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
1,1-Dichloroethane	<0.0018		0.0018	0.00068	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
1,1-Dichloroethene	<0.0018		0.0018	0.00074	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
1,2-Dichloroethane	<0.0045		0.0045	0.0012	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00087	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
2-Hexanone	<0.0045		0.0045	0.0027	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0032	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Acetone	<0.018		0.018	0.0076	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Benzene	<0.0018		0.0018	0.00057	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Bromodichloromethane	<0.0018		0.0018	0.00058	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Bromoform	<0.0018		0.0018	0.0011	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Bromomethane	<0.0045		0.0045	0.0022	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Carbon disulfide	<0.0045		0.0045	0.00083	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Carbon tetrachloride	<0.0018		0.0018	0.00062	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Chlorobenzene	<0.0018		0.0018	0.00076	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Chloroethane	<0.0045		0.0045	0.0015	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Chloroform	<0.0018		0.0018	0.0013	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Chloromethane	<0.0045		0.0045	0.00088	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00073	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00072	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Dibromochloromethane	<0.0018		0.0018	0.00084	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Ethylbenzene	<0.0018		0.0018	0.00095	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00058	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Methylene Chloride	<0.0045		0.0045	0.0019	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Styrene	<0.0018		0.0018	0.00081	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Tetrachloroethene	<0.0018		0.0018	0.0010	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Toluene	<0.0018		0.0018	0.00036	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00068	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00087	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Trichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Vinyl chloride	<0.0018		0.0018	0.00074	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1
Xylenes, Total	<0.0036		0.0036	0.00062	mg/Kg	☆	07/18/24 17:25	07/19/24 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	07/18/24 17:25	07/19/24 16:55	1
4-Bromofluorobenzene (Surr)	109		75 - 131	07/18/24 17:25	07/19/24 16:55	1
Dibromofluoromethane (Surr)	109		75 - 126	07/18/24 17:25	07/19/24 16:55	1
Toluene-d8 (Surr)	102		75 - 124	07/18/24 17:25	07/19/24 16:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.029	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
1,3-Dichlorobenzene	<0.21		0.21	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
1,4-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.029	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253699-1

Client Sample ID: 3692V-2-B01

Lab Sample ID: 500-253699-1

Date Collected: 07/17/24 12:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2,4-Dichlorophenol	<0.41		0.41	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2,4-Dimethylphenol	<0.41		0.41	0.092	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2,4-Dinitrophenol	<0.83		0.83	0.24	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2,4-Dinitrotoluene	<0.21		0.21	0.023	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2-Chloronaphthalene	<0.21		0.21	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2-Methylnaphthalene	<0.083		0.083	0.0082	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2-Nitroaniline	<0.21		0.21	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
2-Nitrophenol	<0.41		0.41	0.028	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
3 & 4 Methylphenol	<0.21		0.21	0.030	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.033	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
3-Nitroaniline	<0.41		0.41	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.23	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.028	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
4-Chloro-3-methylphenol	<0.41		0.41	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
4-Chloroaniline	<0.83		0.83	0.43	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
4-Nitroaniline	<0.41		0.41	0.030	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
4-Nitrophenol	<0.83		0.83	0.15	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Acenaphthene	<0.041		0.041	0.0083	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Acenaphthylene	<0.041		0.041	0.0069	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Anthracene	<0.041		0.041	0.0084	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Benzo[a]pyrene	<0.041		0.041	0.039	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Benzo[b]fluoranthene	<0.041		0.041	0.039	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Benzo[g,h,i]perylene	<0.041		0.041	0.0089	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Benzo[k]fluoranthene	<0.041		0.041	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Butyl benzyl phthalate	<0.21		0.21	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Carbazole	<0.21		0.21	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Dimethyl phthalate	<0.21		0.21	0.0089	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Di-n-octyl phthalate	<0.41		0.41	0.29	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Fluoranthene	<0.041		0.041	0.0095	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Fluorene	<0.041		0.041	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Hexachlorobenzene	<0.083		0.083	0.0078	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Hexachlorobutadiene	<0.21		0.21	0.023	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Hexachlorocyclopentadiene	<0.83		0.83	0.43	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Hexachloroethane	<0.21		0.21	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253699-1

Client Sample ID: 3692V-2-B01

Lab Sample ID: 500-253699-1

Date Collected: 07/17/24 12:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.040	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Isophorone	<0.21		0.21	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Naphthalene	<0.041		0.041	0.0074	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.0081	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
N-Nitrosodiphenylamine	<0.21		0.21	0.024	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Pentachlorophenol	<0.83		0.83	0.10	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Phenanthrene	<0.041		0.041	0.0089	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Phenol	<0.21		0.21	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1
Pyrene	<0.041		0.041	0.011	mg/Kg	☆	07/18/24 15:11	07/19/24 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		31 - 143	07/18/24 15:11	07/19/24 13:40	1
2-Fluorobiphenyl (Surr)	88		43 - 145	07/18/24 15:11	07/19/24 13:40	1
2-Fluorophenol (Surr)	80		31 - 166	07/18/24 15:11	07/19/24 13:40	1
Nitrobenzene-d5 (Surr)	80		37 - 147	07/18/24 15:11	07/19/24 13:40	1
Phenol-d5 (Surr)	82		30 - 153	07/18/24 15:11	07/19/24 13:40	1
Terphenyl-d14 (Surr)	96		42 - 157	07/18/24 15:11	07/19/24 13:40	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	2.2	0.43	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Arsenic	11		1.1	0.38	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Barium	85		1.1	0.13	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Beryllium	0.40	J	0.45	0.10	mg/Kg	☆	07/29/24 09:58	07/30/24 19:55	1
Boron	9.0		5.6	0.52	mg/Kg	☆	07/29/24 09:58	07/30/24 19:55	1
Cadmium	<0.22		0.22	0.040	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Calcium	4600	B	22	3.8	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Chromium	23		1.1	0.55	mg/Kg	☆	07/29/24 09:58	07/30/24 19:55	1
Cobalt	9.9		0.56	0.15	mg/Kg	☆	07/29/24 09:58	07/30/24 19:55	1
Copper	23		1.1	0.31	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Iron	24000		22	12	mg/Kg	☆	07/29/24 09:58	07/30/24 19:55	1
Lead	22		0.56	0.26	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Magnesium	5600		11	5.5	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Manganese	340	B	1.1	0.16	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Nickel	28		1.1	0.33	mg/Kg	☆	07/29/24 09:58	07/30/24 19:55	1
Potassium	2800		56	20	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Selenium	<1.1		1.1	0.66	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Silver	<0.56		0.56	0.14	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Sodium	78	J	110	17	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Thallium	<1.1		1.1	0.56	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Vanadium	37		0.56	0.13	mg/Kg	☆	07/29/24 09:58	07/30/24 01:33	1
Zinc	68		2.2	0.98	mg/Kg	☆	07/29/24 09:58	07/30/24 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 15:53	07/29/24 13:29	1
Beryllium	<0.0040	^+	0.0040	0.0040	mg/L		07/23/24 15:53	07/29/24 13:29	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 13:29	1
Iron	0.39	F1	0.20	0.20	mg/L		07/23/24 15:53	07/29/24 13:29	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253699-1

Client Sample ID: 3692V-2-B01

Lab Sample ID: 500-253699-1

Date Collected: 07/17/24 12:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:53	07/29/24 13:29	1
Manganese	0.10		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 13:29	1
Nickel	<0.025	^+	0.025	0.010	mg/L		07/23/24 15:53	07/29/24 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.052		0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:02	1
Barium	0.52		0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:02	1
Beryllium	0.0044		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:02	1
Boron	0.11		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:02	1
Calcium	19		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:02	1
Chromium	0.14		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:02	1
Cobalt	0.035		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:02	1
Iron	180		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 13:28	1
Lead	0.072		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:02	1
Manganese	0.71		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:02	1
Nickel	0.15		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:02	1
Potassium	24	F1	2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:02	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:02	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:02	1
Zinc	0.32	J	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:53	08/05/24 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0030	J F1	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 14:40	1
Thallium	0.0027		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 14:40	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 11:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0078	mg/Kg	☆	07/29/24 15:35	07/30/24 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.30		0.30	0.15	mg/Kg	☆	07/29/24 10:46	07/29/24 16:41	1
pH (SW846 9045D)	7.8		0.2	0.2	SU			07/24/24 18:48	1

Eurofins Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253699-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

Glossary

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253699-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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: FAI 57 (I-57) Office Phone Number, if available: _____

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

6500 block of West Pauling Road (northwest corner of Pauling Road and I-57)

City: Unincorporated State: IL Zip Code: 60449

County: Will Township: Monee

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

Latitude: 41.39778 Longitude: - 87.76898

(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.): 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 3692V-3-B02 WAS SAMPLED AT SITE 3692V-3. SEE TABLE 3b AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253700-1.

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

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

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

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

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Sep 27, 2024

Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 3692V-3
Vacant Land

Sample ID		3692V-3-B02				
Sample Depth (ft)		0-3				
Sample Date		7/17/2024				
PID		0				
Sample pH		7.7				
Matrix		Soil				
No Contaminants of Concern Noted.		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				

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 1:56:34 PM Revision 1

JOB DESCRIPTION

IDOT - AE8-030A

JOB NUMBER

500-253700-1

Eurofins Chicago

Job Notes

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

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

Authorization



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

Generated
8/6/2024 1:56:34 PM
Revision 1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253700-1

Client Sample ID: 3692V-3-B02

Lab Sample ID: 500-253700-2

Date Collected: 07/17/24 09:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00057	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00070	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00053	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
1,1-Dichloroethane	<0.0014		0.0014	0.00053	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
1,1-Dichloroethene	<0.0014		0.0014	0.00058	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
1,2-Dichloroethane	<0.0035		0.0035	0.00092	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00068	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
2-Butanone (MEK)	<0.0035		0.0035	0.0016	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
2-Hexanone	<0.0035		0.0035	0.0022	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0025	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Acetone	0.010	J	0.014	0.0060	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Benzene	<0.0014		0.0014	0.00045	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Bromodichloromethane	<0.0014		0.0014	0.00046	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Bromoform	<0.0014		0.0014	0.00083	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Bromomethane	<0.0035		0.0035	0.0017	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Carbon disulfide	<0.0035		0.0035	0.00065	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Carbon tetrachloride	<0.0014		0.0014	0.00048	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Chlorobenzene	<0.0014		0.0014	0.00060	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Chloroethane	<0.0035		0.0035	0.0012	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Chloromethane	<0.0035		0.0035	0.00069	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00057	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00057	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Dibromochloromethane	<0.0014		0.0014	0.00066	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Ethylbenzene	<0.0014		0.0014	0.00075	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00046	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Methylene Chloride	<0.0035		0.0035	0.0015	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Styrene	<0.0014		0.0014	0.00064	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Tetrachloroethene	<0.0014		0.0014	0.00080	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Toluene	<0.0014		0.0014	0.00029	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00054	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00068	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Trichloroethene	<0.0014		0.0014	0.00039	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Vinyl chloride	<0.0014		0.0014	0.00058	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1
Xylenes, Total	<0.0028		0.0028	0.00049	mg/Kg	✱	07/18/24 17:25	07/19/24 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	07/18/24 17:25	07/19/24 17:44	1
4-6roB or tuoro f enbene (Surr)	118		75 - 131	07/18/24 17:25	07/19/24 17:44	1
Dif roB or tuoroB ethane (Surr)	118		75 - 122	07/18/24 17:25	07/19/24 17:44	1
Toluene-d8 (Surr)	104		75 - 124	07/18/24 17:25	07/19/24 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.028	mg/Kg	✱	07/18/24 15:11	07/19/24 14:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	✱	07/18/24 15:11	07/19/24 14:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	✱	07/18/24 15:11	07/19/24 14:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	✱	07/18/24 15:11	07/19/24 14:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	✱	07/18/24 15:11	07/19/24 14:30	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253700-1

Client Sample ID: 3692V-3-B02

Lab Sample ID: 500-253700-2

Date Collected: 07/17/24 09:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2,4-Dimethylphenol	<0.39		0.39	0.089	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2,4-Dinitrophenol	<0.80		0.80	0.23	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2-Methylnaphthalene	<0.080		0.080	0.0080	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.22	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
4-Chloroaniline	<0.80		0.80	0.42	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
4-Nitrophenol	<0.80		0.80	0.15	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Acenaphthene	<0.039		0.039	0.0081	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Acenaphthylene	<0.039		0.039	0.0067	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Anthracene	<0.039		0.039	0.0081	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Benzo[a]anthracene	<0.039		0.039	0.0084	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Benzo[b]fluoranthene	<0.039		0.039	0.038	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.0086	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Chrysene	<0.039		0.039	0.010	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Dimethyl phthalate	<0.20		0.20	0.0086	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Di-n-octyl phthalate	<0.39		0.39	0.28	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Fluoranthene	<0.039		0.039	0.0092	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Hexachlorobenzene	<0.080		0.080	0.0076	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Hexachlorocyclopentadiene	<0.80		0.80	0.42	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253700-1

Client Sample ID: 3692V-3-B02

Lab Sample ID: 500-253700-2

Date Collected: 07/17/24 09:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.039	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Naphthalene	<0.039		0.039	0.0072	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Nitrobenzene	<0.039		0.039	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.0078	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Pentachlorophenol	<0.80		0.80	0.099	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Phenanthrene	0.018	J	0.039	0.0086	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1
Pyrene	<0.039		0.039	0.011	mg/Kg	☆	07/18/24 15:11	07/19/24 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,z-Trif roB ophenol (Surr)	73		31 - 143	07/18/24 15:11	07/19/24 14:30	1
2-Fluorof iphenyl (Surr)	72		43 - 145	07/18/24 15:11	07/19/24 14:30	1
2-Fluorophenol (Surr)	zz		31 - 1zz	07/18/24 15:11	07/19/24 14:30	1
Nitrof enbene-d5 (Surr)	5z		37 - 147	07/18/24 15:11	07/19/24 14:30	1
Phenol-d5 (Surr)	z9		30 - 153	07/18/24 15:11	07/19/24 14:30	1
Terphenyl-d14 (Surr)	83		42 - 157	07/18/24 15:11	07/19/24 14:30	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.41	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Arsenic	9.8		1.1	0.36	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Barium	65		1.1	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Beryllium	0.34	J	0.42	0.099	mg/Kg	☆	07/26/24 16:07	07/31/24 19:00	1
Boron	9.5		5.3	0.49	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Cadmium	0.18	J	0.21	0.038	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Calcium	19000		21	3.6	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Chromium	19		1.1	0.52	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Cobalt	13		0.53	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Copper	25		1.1	0.30	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Iron	29000		21	11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:00	1
Lead	19		0.53	0.24	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Magnesium	12000	B	11	5.3	mg/Kg	☆	07/26/24 16:07	07/31/24 19:00	1
Manganese	620	B	1.1	0.15	mg/Kg	☆	07/26/24 16:07	07/31/24 19:00	1
Nickel	32		1.1	0.31	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Potassium	2200		53	19	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Selenium	0.83	J	1.1	0.62	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Silver	<0.53		0.53	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Sodium	2600		110	16	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Thallium	<1.1		1.1	0.53	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Vanadium	24		0.53	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1
Zinc	65		2.1	0.93	mg/Kg	☆	07/26/24 16:07	07/29/24 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/22/24 15:53	07/26/24 00:41	1
Chromium	<0.025		0.025	0.010	mg/L		07/22/24 15:53	07/26/24 00:41	1
Iron	3.4		0.20	0.20	mg/L		07/22/24 15:53	07/26/24 00:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/22/24 15:53	07/26/24 00:41	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253700-1

Client Sample ID: 3692V-3-B02

Lab Sample ID: 500-253700-2

Date Collected: 07/17/24 09:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	9.6		0.025	0.010	mg/L		07/22/24 15:53	07/26/24 00:41	1
Nickel	0.040		0.025	0.010	mg/L		07/22/24 15:53	07/26/24 00:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.068		0.050	0.010	mg/L		07/22/24 15:53	07/30/24 01:05	1
Barium	0.65		0.50	0.050	mg/L		07/22/24 15:53	07/30/24 01:05	1
Beryllium	0.0040		0.0040	0.0040	mg/L		07/22/24 15:53	07/30/24 01:05	1
Boron	0.14		0.10	0.050	mg/L		07/22/24 15:53	07/27/24 03:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/22/24 15:53	07/30/24 01:05	1
Calcium	29		2.5	0.50	mg/L		07/22/24 15:53	07/27/24 03:30	1
Chromium	0.14		0.025	0.010	mg/L		07/22/24 15:53	07/27/24 03:30	1
Cobalt	0.062		0.025	0.010	mg/L		07/22/24 15:53	07/30/24 01:05	1
Iron	170		0.40	0.20	mg/L		07/22/24 15:53	07/30/24 01:05	1
Lead	0.14		0.0075	0.0075	mg/L		07/22/24 15:53	07/30/24 01:05	1
Manganese	1.9		0.025	0.010	mg/L		07/22/24 15:53	07/27/24 03:30	1
Nickel	0.19		0.025	0.010	mg/L		07/22/24 15:53	07/30/24 01:05	1
Potassium	25		2.5	0.50	mg/L		07/22/24 15:53	07/27/24 03:30	1
Selenium	<0.050		0.050	0.020	mg/L		07/22/24 15:53	07/30/24 01:05	1
Silver	<0.025		0.025	0.010	mg/L		07/22/24 15:53	07/27/24 03:30	1
Zinc	0.46 J ^+		0.50	0.020	mg/L		07/22/24 15:53	07/30/24 01:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:53	07/31/24 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0024 J		0.0060	0.0013	mg/L		07/22/24 15:53	07/25/24 16:35	1
Thallium	0.0038		0.0020	0.00057	mg/L		07/22/24 15:53	07/25/24 16:35	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/25/24 12:00	07/26/24 12:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.018	0.0076	mg/Kg	☆	07/31/24 16:40	08/01/24 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.13	mg/Kg	☆	07/29/24 10:46	07/29/24 16:44	1
pH (SW846 9045D)	7.7		0.2	0.2	SU			07/24/24 18:55	1

Eurofins Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253700-1

Qualifiers

GC/MS m/V O

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

GC/MS Sep i m/V O

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.
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.

Glossary

Abbreviation	These are only used abbreviations that 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

Eurofins Chicago

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253700-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



500-253700 COC

Project Name	AF8-030A
--------------	----------

Laboratory

Client Contact

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

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

Project No PTB/WO #: 195 000230

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

Sampler: Pa1/b Swander

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix
1	3692V-3-B01	07/17/24	1000	S
2	3692V-3-B02	07/17/24	0945	S

[illegible]

Relinquished by	
Relinquished by	
Relinquished by	

Date/Time	07/18/24
Date/Time	7/18/24 12:25
Date/Time	

Received by	David Kinsman
Received by	Stephanie Hemmings EETA
Received by	

Date/Time	7/18/24 10:26
Date/Time	7/18/24 11:15
Date/Time	



CHAIN OF CUSTODY RECORD

Andrews Engineering, Inc
Page 40 of 41
8/6/2024 (Rev. 1)
T:\DOT Templates\CCOALDOT COC Template (Landscape).rtx



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: FAI 57 (I-57) Office Phone Number, if available: _____

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

6400-6500 blocks of W. Pauling Rd. & 26800-27300 blocks of S. Ridgeland Ave. (NE and SE quadrants of I-57 and Pauling Rd.)

City: Unincorporated State: IL Zip Code: 60449

County: Will Township: Monee

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

Latitude: 41.39784 Longitude: -87.76756

(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.): 205

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 3692V-4-B01 WAS SAMPLED AT SITE 3692V-4. SEE TABLE 3c AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253701-1.

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

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

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

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

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Sep 27, 2024

Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 3692V-4
Unnamed tributary to
Monee Reservoir

		Maximum Allowable Concentration				
Sample ID	3692V-4-B01-1	3692V-4-B01-2				
Sample Depth (ft)	0-5	5-10				
Sample Date	7/17/2024	7/17/2024				
PID	0	0				
Sample pH	7.5	7.5				
Matrix	Soil	Soil	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits
5 Within a Metropolitan Statistical Area						
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 2:07:31 PM Revision 1

JOB DESCRIPTION

IDOT - AE8-030A

JOB NUMBER

500-253701-1

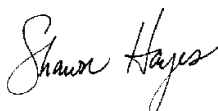
Eurofins Chicago

Job Notes

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

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

Authorization



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

Generated
8/6/2024 2:07:31 PM
Revision 1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Client Sample ID: 3692V-4-B01-1

Lab Sample ID: 500-253701-1

Date Collected: 07/17/24 09:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00055	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00067	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00051	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
1,1-Dichloroethane	<0.0014		0.0014	0.00051	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
1,1-Dichloroethene	<0.0014		0.0014	0.00056	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
1,2-Dichloroethane	<0.0034		0.0034	0.00088	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
1,2-Dichloropropane	<0.0014		0.0014	0.00035	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00065	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
2-Butanone (MEK)	<0.0034		0.0034	0.0015	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
2-Hexanone	<0.0034		0.0034	0.0021	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0034	0.0024	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Acetone	0.011	J	0.014	0.0057	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Benzene	<0.0014		0.0014	0.00043	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Bromodichloromethane	<0.0014		0.0014	0.00044	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Bromoform	<0.0014		0.0014	0.00079	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Bromomethane	<0.0034		0.0034	0.0017	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Carbon disulfide	<0.0034		0.0034	0.00062	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Carbon tetrachloride	<0.0014		0.0014	0.00046	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Chlorobenzene	<0.0014		0.0014	0.00057	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Chloroethane	<0.0034		0.0034	0.0011	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Chloroform	<0.0014		0.0014	0.00098	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Chloromethane	<0.0034		0.0034	0.00066	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00055	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00054	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Dibromochloromethane	<0.0014		0.0014	0.00063	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Ethylbenzene	<0.0014		0.0014	0.00071	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00044	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Methylene Chloride	<0.0034		0.0034	0.0014	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Styrene	<0.0014		0.0014	0.00061	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Tetrachloroethene	<0.0014		0.0014	0.00076	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Toluene	<0.0014		0.0014	0.00027	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00051	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00065	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Trichloroethene	<0.0014		0.0014	0.00037	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Vinyl chloride	<0.0014		0.0014	0.00055	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1
Xylenes, Total	<0.0027		0.0027	0.00047	mg/Kg	☆	07/18/24 17:25	07/19/24 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	07/18/24 17:25	07/19/24 18:08	1
4-Bromofluorobenzene (Surr)	110		75 - 131	07/18/24 17:25	07/19/24 18:08	1
Dibromofluoromethane (Surr)	113		75 - 126	07/18/24 17:25	07/19/24 18:08	1
Toluene-d8 (Surr)	102		75 - 124	07/18/24 17:25	07/19/24 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.026	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Client Sample ID: 3692V-4-B01-1

Lab Sample ID: 500-253701-1

Date Collected: 07/17/24 09:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2-Methylnaphthalene	<0.075		0.075	0.0074	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Acenaphthene	<0.037		0.037	0.0075	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Anthracene	0.029	J	0.037	0.0076	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Benzo[a]anthracene	0.041		0.037	0.0079	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Benzo[a]pyrene	0.054		0.037	0.036	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Benzo[b]fluoranthene	0.050		0.037	0.035	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Benzo[g,h,i]perylene	0.10		0.037	0.0080	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Benzo[k]fluoranthene	0.037		0.037	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Butyl benzyl phthalate	0.037	J	0.19	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Carbazole	0.033	J	0.19	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Chrysene	0.053		0.037	0.0098	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Dibenz(a,h)anthracene	0.041		0.037	0.037	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Diethyl phthalate	0.026	J	0.19	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Dimethyl phthalate	<0.19		0.19	0.0080	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Di-n-butyl phthalate	0.034	J	0.19	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Fluoranthene	0.041		0.037	0.0086	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Client Sample ID: 3692V-4-B01-1

Lab Sample ID: 500-253701-1

Date Collected: 07/17/24 09:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.053		0.037	0.036	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Phenanthrene	0.033	J	0.037	0.0081	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1
Pyrene	0.045		0.037	0.010	mg/Kg	☆	07/19/24 07:18	07/19/24 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		31 - 143	07/19/24 07:18	07/19/24 18:01	1
2-Fluorobiphenyl (Surr)	68		43 - 145	07/19/24 07:18	07/19/24 18:01	1
2-Fluorophenol (Surr)	63		31 - 166	07/19/24 07:18	07/19/24 18:01	1
Nitrobenzene-d5 (Surr)	1	S1-	37 - 147	07/19/24 07:18	07/19/24 18:01	1
Phenol-d5 (Surr)	64		30 - 153	07/19/24 07:18	07/19/24 18:01	1
Terphenyl-d14 (Surr)	65		42 - 157	07/19/24 07:18	07/19/24 18:01	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Arsenic	6.8		1.0	0.35	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Barium	73		1.0	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Beryllium	0.37	J	0.41	0.095	mg/Kg	☆	07/26/24 16:07	07/31/24 19:04	1
Boron	7.2		5.1	0.47	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Cadmium	0.13	J	0.20	0.037	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Calcium	24000		20	3.4	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Chromium	16		1.0	0.50	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Cobalt	12		0.51	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Copper	22		1.0	0.28	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Iron	18000		20	11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:04	1
Lead	21		0.51	0.23	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Magnesium	17000	B	10	5.0	mg/Kg	☆	07/26/24 16:07	07/31/24 19:04	1
Manganese	390	B	1.0	0.15	mg/Kg	☆	07/26/24 16:07	07/31/24 19:04	1
Nickel	27		1.0	0.30	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Potassium	1600		51	18	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Selenium	1.0		1.0	0.60	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Silver	<0.51		0.51	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Sodium	1100		100	15	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Thallium	<1.0		1.0	0.51	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Vanadium	22		0.51	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1
Zinc	64		2.0	0.89	mg/Kg	☆	07/26/24 16:07	07/29/24 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.28		0.20	0.20	mg/L		07/23/24 15:53	08/02/24 19:51	1
Lead	0.0076		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 16:03	1
Manganese	15		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 13:56	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Client Sample ID: 3692V-4-B01-1

Lab Sample ID: 500-253701-1

Date Collected: 07/17/24 09:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.033	J	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:19	1
Barium	0.51		0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:19	1
Boron	0.080	J	0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:19	1
Calcium	23		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:19	1
Chromium	0.060		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:19	1
Cobalt	0.033		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:19	1
Iron	170		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 13:45	1
Lead	0.086		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:19	1
Manganese	1.4		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:19	1
Nickel	0.078		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:19	1
Potassium	13		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:19	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:19	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:19	1
Zinc	0.15	J	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0026	J	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 14:55	1
Thallium	0.0018	J	0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 14:55	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 11:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0077	mg/Kg	✱	07/30/24 15:20	07/31/24 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	✱	07/29/24 10:46	07/29/24 16:46	1
pH (SW846 9045D)	7.5		0.2	0.2	SU			07/24/24 18:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Client Sample ID: 3692V-4-B01-2

Lab Sample ID: 500-253701-2

Date Collected: 07/17/24 09:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00063	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
1,1,1,2-Tetrachloroethane	<0.0016	*3	0.0016	0.00077	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00058	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
1,1-Dichloroethane	<0.0016		0.0016	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
1,1-Dichloroethene	<0.0016		0.0016	0.00064	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
1,2-Dichloroethane	<0.0039		0.0039	0.0010	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00075	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
2-Hexanone	<0.0039		0.0039	0.0024	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0028	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Acetone	0.010	J	0.016	0.0065	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Benzene	<0.0016		0.0016	0.00049	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Bromodichloromethane	<0.0016		0.0016	0.00050	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Bromoform	<0.0016		0.0016	0.00091	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Bromomethane	<0.0039	*+	0.0039	0.0019	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Carbon disulfide	<0.0039		0.0039	0.00072	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Carbon tetrachloride	<0.0016		0.0016	0.00053	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Chlorobenzene	<0.0016		0.0016	0.00066	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Chloroethane	<0.0039		0.0039	0.0013	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Chloroform	<0.0016		0.0016	0.0011	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Chloromethane	<0.0039		0.0039	0.00075	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00063	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00062	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Dibromochloromethane	<0.0016		0.0016	0.00072	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Ethylbenzene	<0.0016		0.0016	0.00082	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00050	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Methylene Chloride	0.0023	J B	0.0039	0.0017	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Styrene	<0.0016		0.0016	0.00070	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Tetrachloroethene	<0.0016		0.0016	0.00087	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Toluene	<0.0016		0.0016	0.00031	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00075	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Trichloroethene	<0.0016		0.0016	0.00042	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Vinyl chloride	<0.0016		0.0016	0.00064	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1
Xylenes, Total	<0.0031		0.0031	0.00053	mg/Kg	☆	07/18/24 17:25	07/22/24 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/18/24 17:25	07/22/24 12:54	1
4-Bromofluorobenzene (Surr)	142	S1+ *3	75 - 131	07/18/24 17:25	07/22/24 12:54	1
Dibromofluoromethane (Surr)	102		75 - 126	07/18/24 17:25	07/22/24 12:54	1
Toluene-d8 (Surr)	130	S1+	75 - 124	07/18/24 17:25	07/22/24 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.029	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
1,3-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
1,4-Dichlorobenzene	<0.21		0.21	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.030	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Client Sample ID: 3692V-4-B01-2

Lab Sample ID: 500-253701-2

Date Collected: 07/17/24 09:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.016	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2,4-Dichlorophenol	<0.41		0.41	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2,4-Dimethylphenol	<0.41		0.41	0.092	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2,4-Dinitrophenol	<0.83		0.83	0.24	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2,4-Dinitrotoluene	<0.21		0.21	0.023	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2-Chloronaphthalene	<0.21		0.21	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2-Methylnaphthalene	<0.083		0.083	0.0083	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2-Nitroaniline	<0.21		0.21	0.022	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
2-Nitrophenol	<0.41		0.41	0.028	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
3 & 4 Methylphenol	<0.21		0.21	0.030	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
3-Nitroaniline	<0.41		0.41	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.23	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.028	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
4-Chloro-3-methylphenol	<0.41		0.41	0.016	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
4-Chloroaniline	<0.83		0.83	0.43	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
4-Nitroaniline	<0.41		0.41	0.030	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
4-Nitrophenol	<0.83		0.83	0.15	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Acenaphthene	<0.041		0.041	0.0084	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Acenaphthylene	<0.041		0.041	0.0070	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Anthracene	<0.041		0.041	0.0084	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Benzo[a]pyrene	<0.041		0.041	0.040	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Benzo[b]fluoranthene	<0.041		0.041	0.039	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Benzo[g,h,i]perylene	<0.041		0.041	0.0089	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Benzo[k]fluoranthene	<0.041		0.041	0.016	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Butyl benzyl phthalate	<0.21		0.21	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Carbazole	<0.21		0.21	0.016	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Dimethyl phthalate	<0.21		0.21	0.0090	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Di-n-octyl phthalate	<0.41		0.41	0.29	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Fluoranthene	<0.041		0.041	0.0096	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Fluorene	<0.041		0.041	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Hexachlorobenzene	<0.083		0.083	0.0079	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Hexachlorobutadiene	<0.21		0.21	0.023	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Hexachlorocyclopentadiene	<0.83		0.83	0.44	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Hexachloroethane	<0.21		0.21	0.021	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Client Sample ID: 3692V-4-B01-2

Lab Sample ID: 500-253701-2

Date Collected: 07/17/24 09:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.040	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Isophorone	<0.21		0.21	0.021	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Naphthalene	<0.041		0.041	0.0075	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.0081	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
N-Nitrosodiphenylamine	<0.21		0.21	0.024	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Pentachlorophenol	<0.83		0.83	0.10	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Phenanthrene	<0.041		0.041	0.0090	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Phenol	<0.21		0.21	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1
Pyrene	<0.041		0.041	0.011	mg/Kg	☆	07/19/24 07:18	07/19/24 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		31 - 143	07/19/24 07:18	07/19/24 18:26	1
2-Fluorobiphenyl (Surr)	75		43 - 145	07/19/24 07:18	07/19/24 18:26	1
2-Fluorophenol (Surr)	70		31 - 166	07/19/24 07:18	07/19/24 18:26	1
Nitrobenzene-d5 (Surr)	46		37 - 147	07/19/24 07:18	07/19/24 18:26	1
Phenol-d5 (Surr)	71		30 - 153	07/19/24 07:18	07/19/24 18:26	1
Terphenyl-d14 (Surr)	84		42 - 157	07/19/24 07:18	07/19/24 18:26	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.4		2.4	0.46	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Arsenic	10		1.2	0.40	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Barium	40		1.2	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Beryllium	0.30	J	0.47	0.11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:08	1
Boron	9.9		5.9	0.55	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Cadmium	0.071	J	0.24	0.043	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Calcium	18000		24	4.0	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Chromium	16		1.2	0.59	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Cobalt	13		0.59	0.15	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Copper	23		1.2	0.33	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Iron	21000		24	12	mg/Kg	☆	07/26/24 16:07	07/31/24 19:08	1
Lead	15		0.59	0.27	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Magnesium	12000	B	12	5.9	mg/Kg	☆	07/26/24 16:07	07/31/24 19:08	1
Manganese	250	B	1.2	0.17	mg/Kg	☆	07/26/24 16:07	07/31/24 19:08	1
Nickel	32		1.2	0.34	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Potassium	2000		59	21	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Selenium	0.92	J	1.2	0.70	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Silver	<0.59		0.59	0.15	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Sodium	91	J	120	17	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Thallium	<1.2		1.2	0.59	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Vanadium	20		0.59	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1
Zinc	52		2.4	1.0	mg/Kg	☆	07/26/24 16:07	07/29/24 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.21		0.20	0.20	mg/L		07/23/24 15:53	07/29/24 14:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:53	07/29/24 14:00	1
Manganese	6.2		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 14:00	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Client Sample ID: 3692V-4-B01-2

Lab Sample ID: 500-253701-2

Date Collected: 07/17/24 09:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.024	J	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:24	1
Barium	0.15	J	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:24	1
Boron	0.086	J	0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:24	1
Calcium	23		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:24	1
Chromium	0.050		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:24	1
Cobalt	0.018	J	0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:24	1
Iron	57		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 13:50	1
Lead	0.030		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:24	1
Manganese	0.24		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:24	1
Nickel	0.059		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:24	1
Potassium	11		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:24	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:24	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:24	1
Zinc	0.12	J	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0018	J	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 14:59	1
Thallium	0.0011	J	0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 14:59	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 11:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.020	0.0081	mg/Kg	☆	07/30/24 15:20	07/31/24 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.30		0.30	0.15	mg/Kg	☆	07/29/24 10:46	07/29/24 16:48	1
pH (SW846 9045D)	7.5		0.2	0.2	SU			07/24/24 18:59	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253701-1

Qualifiers

GC/MS m/V O

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable 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.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Sep i m/V O

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
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 are only used abbreviations that 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 - AE8-030A

Job ID: 500-253701-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Andrews Engineering, Inc

Page 40 of 41

8/6/2024 (Rev. 1)

T:\DOT Templates\COCALDOT COC Template\DOT COC Template.dwg



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: FAI 57 (I-57) Office Phone Number, if available: _____

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

6300-6400 blocks of West Pauling Road (northeast corner of I-57 and Pauling Road)

City: Unincorporated State: IL Zip Code: 60449

County: Will Township: Monee

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

Latitude: 41.39779 Longitude: - 87.76747

(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.): 414

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 3692V-6-B01 AND 3692V-6-B02 WERE SAMPLED AT SITE 3692V-6. SEE TABLE 3d AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253702-1.

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

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

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

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

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Sep 27, 2024

Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 3692V-6
Vacant Land

Sample ID	3692V-6-B01	3692V-6-B02	Maximum Allowable Concentration							
Sample Depth (ft)	0-3	0-3	1 Most Stringent	2 Outside a Populated Area	3 Within a Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Within a Metropolitan Statistical Area			
Sample Date	7/17/2024	7/17/2024								
PID	0	0								
Sample pH	7.8	7.4								
Matrix	Soil	Soil								
No Contaminants of Concern Noted.										

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 11:26:05 AM

JOB DESCRIPTION

IDOT - AE8-030A

JOB NUMBER

500-253702-1

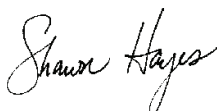
Eurofins Chicago

Job Notes

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

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

Authorization



Generated
8/6/2024 11:26:05 AM

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Client Sample ID: 3692V-6-B01

Lab Sample ID: 500-253702-1

Date Collected: 07/17/24 09:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0013		0.0013	0.00052	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
1,1,2,2-Tetrachloroethane	<0.0013		0.0013	0.00064	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
1,1,2-Trichloroethane	<0.0013		0.0013	0.00048	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
1,1-Dichloroethane	<0.0013		0.0013	0.00048	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
1,1-Dichloroethene	<0.0013		0.0013	0.00053	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
1,2-Dichloroethane	<0.0032		0.0032	0.00083	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
1,2-Dichloropropane	<0.0013		0.0013	0.00033	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
1,3-Dichloropropene, Total	<0.0013		0.0013	0.00062	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
2-Butanone (MEK)	<0.0032		0.0032	0.0014	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
2-Hexanone	<0.0032		0.0032	0.0020	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
4-Methyl-2-pentanone (MIBK)	<0.0032		0.0032	0.0023	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Acetone	0.0077	J	0.013	0.0054	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Benzene	<0.0013		0.0013	0.00040	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Bromodichloromethane	<0.0013		0.0013	0.00041	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Bromoform	<0.0013		0.0013	0.00075	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Bromomethane	<0.0032		0.0032	0.0016	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Carbon disulfide	<0.0032		0.0032	0.00059	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Carbon tetrachloride	<0.0013		0.0013	0.00044	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Chlorobenzene	<0.0013		0.0013	0.00054	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Chloroethane	<0.0032		0.0032	0.0011	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Chloroform	<0.0013		0.0013	0.00092	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Chloromethane	<0.0032		0.0032	0.00062	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
cis-1,2-Dichloroethene	<0.0013		0.0013	0.00052	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
cis-1,3-Dichloropropene	<0.0013		0.0013	0.00052	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Dibromochloromethane	<0.0013		0.0013	0.00060	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Ethylbenzene	<0.0013		0.0013	0.00068	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Methyl tert-butyl ether	<0.0013		0.0013	0.00041	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Methylene Chloride	<0.0032		0.0032	0.0014	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Styrene	<0.0013		0.0013	0.00058	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Tetrachloroethene	<0.0013		0.0013	0.00072	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Toluene	<0.0013		0.0013	0.00026	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
trans-1,2-Dichloroethene	<0.0013		0.0013	0.00049	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
trans-1,3-Dichloropropene	<0.0013		0.0013	0.00062	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Trichloroethene	<0.0013		0.0013	0.00035	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Vinyl chloride	<0.0013		0.0013	0.00052	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1
Xylenes, Total	<0.0026		0.0026	0.00044	mg/Kg	☆	07/18/24 17:25	07/19/24 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	07/18/24 17:25	07/19/24 18:57	1
4-Bromofluorobenzene (Surr)	113		75 - 131	07/18/24 17:25	07/19/24 18:57	1
Dibromofluoromethane (Surr)	117		75 - 126	07/18/24 17:25	07/19/24 18:57	1
Toluene-d8 (Surr)	100		75 - 124	07/18/24 17:25	07/19/24 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Client Sample ID: 3692V-6-B01

Lab Sample ID: 500-253702-1

Date Collected: 07/17/24 09:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2-Methylnaphthalene	<0.077		0.077	0.0076	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.21	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Benzo[g,h,i]perylene	0.044		0.038	0.0082	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Fluoranthene	0.0097	J	0.038	0.0088	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Client Sample ID: 3692V-6-B01

Lab Sample ID: 500-253702-1

Date Collected: 07/17/24 09:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.037	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Naphthalene	0.0089	J	0.038	0.0069	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Phenol	0.10	J	0.19	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1
Pyrene	0.017	J	0.038	0.010	mg/Kg	☆	07/19/24 07:18	07/19/24 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		31 - 143	07/19/24 07:18	07/19/24 18:50	1
2-Fluorobiphenyl (Surr)	72		43 - 145	07/19/24 07:18	07/19/24 18:50	1
2-Fluorophenol (Surr)	68		31 - 166	07/19/24 07:18	07/19/24 18:50	1
Nitrobenzene-d5 (Surr)	0.2	S1-	37 - 147	07/19/24 07:18	07/19/24 18:50	1
Phenol-d5 (Surr)	68		30 - 153	07/19/24 07:18	07/19/24 18:50	1
Terphenyl-d14 (Surr)	66		42 - 157	07/19/24 07:18	07/19/24 18:50	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.46	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Arsenic	10		1.2	0.40	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Barium	57		1.2	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Beryllium	0.40	J	0.47	0.11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:12	1
Boron	7.9		5.9	0.55	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Cadmium	0.096	J	0.23	0.042	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Calcium	7700		23	4.0	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Chromium	17		1.2	0.58	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Cobalt	13		0.59	0.15	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Copper	30		1.2	0.33	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Iron	22000		23	12	mg/Kg	☆	07/26/24 16:07	07/31/24 19:12	1
Lead	21		0.59	0.27	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Magnesium	6900	B	12	5.8	mg/Kg	☆	07/26/24 16:07	07/31/24 19:12	1
Manganese	200	B	1.2	0.17	mg/Kg	☆	07/26/24 16:07	07/31/24 19:12	1
Nickel	33		1.2	0.34	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Potassium	1800		59	21	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Selenium	<1.2		1.2	0.69	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Silver	<0.59		0.59	0.15	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Sodium	850		120	17	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Thallium	<1.2		1.2	0.59	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Vanadium	24		0.59	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1
Zinc	57		2.3	1.0	mg/Kg	☆	07/26/24 16:07	07/29/24 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.7		0.20	0.20	mg/L		07/23/24 15:53	08/02/24 19:56	1
Lead	0.014		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 19:56	1
Manganese	13		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 14:05	1
Nickel	0.040		0.025	0.010	mg/L		07/23/24 15:53	08/02/24 19:56	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Client Sample ID: 3692V-6-B01

Lab Sample ID: 500-253702-1

Date Collected: 07/17/24 09:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.046	J	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:28	1
Barium	0.32	J	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:28	1
Boron	0.12		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:28	1
Calcium	22		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:28	1
Chromium	0.088		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:28	1
Cobalt	0.046		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:28	1
Iron	120		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 13:54	1
Lead	0.072		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:28	1
Manganese	0.90		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:28	1
Nickel	0.12		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:28	1
Potassium	21		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:28	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:28	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:28	1
Zinc	0.23	J	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:53	08/05/24 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0017	J	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 15:03	1
Thallium	0.0025		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 15:03	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 11:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0078	mg/Kg	☆	07/30/24 15:20	07/31/24 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	☆	07/29/24 10:46	07/29/24 16:49	1
pH (SW846 9045D)	7.8		0.2	0.2	SU			07/24/24 19:32	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Client Sample ID: 3692V-6-B02

Lab Sample ID: 500-253702-2

Date Collected: 07/17/24 09:00

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00061	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00075	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
1,1-Dichloroethane	<0.0015		0.0015	0.00057	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
1,1-Dichloroethene	<0.0015		0.0015	0.00062	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
1,2-Dichloroethane	<0.0038		0.0038	0.00098	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00072	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
2-Butanone (MEK)	0.0027	J	0.0038	0.0017	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
2-Hexanone	<0.0038		0.0038	0.0023	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0027	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Acetone	0.016		0.015	0.0063	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Benzene	<0.0015		0.0015	0.00047	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Bromodichloromethane	<0.0015		0.0015	0.00048	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Bromoform	<0.0015		0.0015	0.00088	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Bromomethane	<0.0038	*+	0.0038	0.0019	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Carbon disulfide	<0.0038		0.0038	0.00069	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Carbon tetrachloride	<0.0015		0.0015	0.00051	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Chlorobenzene	<0.0015		0.0015	0.00064	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Chloroethane	<0.0038		0.0038	0.0012	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Chloroform	<0.0015		0.0015	0.0011	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Chloromethane	<0.0038		0.0038	0.00073	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00061	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00060	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Dibromochloromethane	<0.0015		0.0015	0.00070	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Ethylbenzene	<0.0015		0.0015	0.00079	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00049	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Methylene Chloride	0.0019	J B	0.0038	0.0016	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Styrene	<0.0015		0.0015	0.00068	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Tetrachloroethene	<0.0015		0.0015	0.00085	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Toluene	<0.0015		0.0015	0.00030	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00057	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00072	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Trichloroethene	<0.0015		0.0015	0.00041	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Vinyl chloride	<0.0015		0.0015	0.00062	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1
Xylenes, Total	<0.0030		0.0030	0.00052	mg/Kg	☆	07/18/24 17:25	07/22/24 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	07/18/24 17:25	07/22/24 13:18	1
4-Bromofluorobenzene (Surr)	120		75 - 131	07/18/24 17:25	07/22/24 13:18	1
Dibromofluoromethane (Surr)	98		75 - 126	07/18/24 17:25	07/22/24 13:18	1
Toluene-d8 (Surr)	106		75 - 124	07/18/24 17:25	07/22/24 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.028	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.028	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Client Sample ID: 3692V-6-B02

Lab Sample ID: 500-253702-2

Date Collected: 07/17/24 09:00

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2,4-Dichlorophenol	<0.38		0.38	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2,4-Dimethylphenol	<0.38		0.38	0.087	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2,4-Dinitrophenol	<0.78		0.78	0.22	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2-Methylnaphthalene	<0.078		0.078	0.0078	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2-Nitroaniline	<0.19		0.19	0.021	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
3-Nitroaniline	<0.38		0.38	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.22	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
4-Chloroaniline	<0.78		0.78	0.41	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
4-Nitroaniline	<0.38		0.38	0.029	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
4-Nitrophenol	<0.78		0.78	0.14	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Acenaphthene	<0.038		0.038	0.0079	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Acenaphthylene	<0.038		0.038	0.0066	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Anthracene	<0.038		0.038	0.0079	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Benzo[a]anthracene	<0.038		0.038	0.0082	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.037	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0084	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Diethyl phthalate	<0.19		0.19	0.018	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Dimethyl phthalate	<0.19		0.19	0.0084	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Fluoranthene	<0.038		0.038	0.0090	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Hexachlorobenzene	<0.078		0.078	0.0074	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Hexachlorocyclopentadiene	<0.78		0.78	0.41	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Client Sample ID: 3692V-6-B02

Lab Sample ID: 500-253702-2

Date Collected: 07/17/24 09:00

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.038	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Naphthalene	<0.038		0.038	0.0070	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.0076	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Pentachlorophenol	<0.78		0.78	0.097	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Phenanthrene	<0.038		0.038	0.0084	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Phenol	<0.19		0.19	0.017	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1
Pyrene	<0.038		0.038	0.011	mg/Kg	☆	07/19/24 07:18	07/19/24 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		31 - 143	07/19/24 07:18	07/19/24 19:14	1
2-Fluorobiphenyl (Surr)	71		43 - 145	07/19/24 07:18	07/19/24 19:14	1
2-Fluorophenol (Surr)	69		31 - 166	07/19/24 07:18	07/19/24 19:14	1
Nitrobenzene-d5 (Surr)	55		37 - 147	07/19/24 07:18	07/19/24 19:14	1
Phenol-d5 (Surr)	67		30 - 153	07/19/24 07:18	07/19/24 19:14	1
Terphenyl-d14 (Surr)	77		42 - 157	07/19/24 07:18	07/19/24 19:14	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.40	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Arsenic	9.3		1.0	0.35	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Barium	65		1.0	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Beryllium	0.41		0.41	0.095	mg/Kg	☆	07/26/24 16:07	07/31/24 19:16	1
Boron	8.6		5.1	0.47	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Cadmium	0.15 J		0.20	0.037	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Calcium	12000		20	3.4	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Chromium	17		1.0	0.50	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Cobalt	12		0.51	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Copper	25		1.0	0.28	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Iron	20000		20	11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:16	1
Lead	24		0.51	0.23	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Magnesium	9100 B		10	5.0	mg/Kg	☆	07/26/24 16:07	07/31/24 19:16	1
Manganese	190 B		1.0	0.15	mg/Kg	☆	07/26/24 16:07	07/31/24 19:16	1
Nickel	30		1.0	0.30	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Potassium	1900		51	18	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Selenium	0.87 J		1.0	0.60	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Silver	<0.51		0.51	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Sodium	360		100	15	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Thallium	<1.0		1.0	0.51	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Vanadium	24		0.51	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1
Zinc	66		2.0	0.89	mg/Kg	☆	07/26/24 16:07	07/29/24 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:32	1
Barium	<0.50		0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:32	1
Boron	<0.10		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:32	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Client Sample ID: 3692V-6-B02

Lab Sample ID: 500-253702-2

Date Collected: 07/17/24 09:00

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:32	1
Calcium	17		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:32	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:32	1
Cobalt	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:32	1
Iron	2.5		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 14:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:32	1
Manganese	0.060		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:32	1
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:32	1
Potassium	1.7 J		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:32	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:32	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:32	1
Zinc	<0.50		0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 15:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 15:06	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 11:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0078	mg/Kg	☆	07/30/24 15:20	07/31/24 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	☆	07/29/24 10:46	07/29/24 16:51	1
pH (SW846 9045D)	7.4		0.2	0.2	SU			07/24/24 19:01	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253702-1

Qualifiers

GC/MS m/V O

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

GC/MS Sep i m/V O

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
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 are only used abbreviations that 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 - AE8-030A

Job ID: 500-253702-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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: FAI 57 (I-57) Office Phone Number, if available: _____

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

6559 West Pauling Road

City: Unincorporated State: IL Zip Code: 60449

County: Will Township: Monee

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

Latitude: 41.39765 Longitude: -87.77091

(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.): 49

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 3692V-10-B01 WAS SAMPLED AT SITE 3692V-10. SEE TABLE 3e AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253703-1.

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

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

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

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

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Sep 27, 2024

Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 3692V-10
Residence

		Maximum Allowable Concentration				
Sample ID	3692V-10-B01	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Depth (ft)	0-5					
Sample Date	7/17/2024					
PID	0					
Sample pH	8.2					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 2:10:39 PM Revision 1

JOB DESCRIPTION

IDOT - AE8-030A

JOB NUMBER

500-253703-1

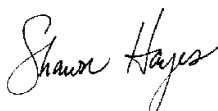
Eurofins Chicago

Job Notes

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

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

Authorization



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

Generated
8/6/2024 2:10:39 PM
Revision 1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253703-1

Client Sample ID: 31V2B-90-M09

Lab Sample ID: 500-253603-9

Date Cdlle7ec: 06/96/24 92:30

r atxio: Sdllic

Date Re7ei. ec: 06/9v/24 92:25

Pex7ent Sdllics: 6V&

r ethdc: SWv41 v210D - Bdlatile Oygani7 Cdmpruncs by GC/r S

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхрархс	Analyzec	Dil Fa7
1,1,1-Trichloroethane	<0.0016		0.0016	0.00066	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00081	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00061	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
1,1-Dichloroethane	<0.0016		0.0016	0.00061	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
1,1-Dichloroethene	<0.0016		0.0016	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
1,2-Dichloroethane	<0.0041		0.0041	0.0011	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00078	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
2-Hexanone	<0.0041		0.0041	0.0025	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0029	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Benzene	<0.0016		0.0016	0.00051	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Bromodichloromethane	<0.0016		0.0016	0.00052	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Bromoform	<0.0016		0.0016	0.00095	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Bromomethane	<0.0041		0.0041	0.0020	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Carbon disulfide	<0.0041		0.0041	0.00075	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Carbon tetrachloride	<0.0016		0.0016	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Chlorobenzene	<0.0016		0.0016	0.00069	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Chloroethane	<0.0041		0.0041	0.0013	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Chloroform	<0.0016		0.0016	0.0012	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Chloromethane	<0.0041		0.0041	0.00079	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00066	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00065	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Dibromochloromethane	<0.0016		0.0016	0.00076	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Ethylbenzene	<0.0016		0.0016	0.00086	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00053	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Methylene Chloride	<0.0041		0.0041	0.0017	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Styrene	<0.0016		0.0016	0.00073	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Tetrachloroethene	<0.0016		0.0016	0.00092	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Toluene	<0.0016		0.0016	0.00033	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00062	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00078	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Trichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Vinyl chloride	<0.0016		0.0016	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1
Xylenes, Total	<0.0033		0.0033	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		03 - 1/4	308: 04 1029	308204 3154	1
4-6roB ortuorof enbene (Surr)	114		09 - 1/1	308: 04 1029	308204 3154	1
Dif roB ortuoroB ethane (Surr)	121		09 - 12z	308: 04 1029	308204 3154	1
Toluene-d: (Surr)	133		09 - 124	308: 04 1029	308204 3154	1

r ethdc: SWv41 v260E - Semi. dlatile Oygani7 Cdmpruncs (GC/r S)

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхрархс	Analyzec	Dil Fa7
1,2,4-Trichlorobenzene	<0.42	F1	0.42	0.059	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
1,2-Dichlorobenzene	<0.42	F1	0.42	0.034	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
1,3-Dichlorobenzene	<0.42	F1	0.42	0.037	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
1,4-Dichlorobenzene	<0.42	F1	0.42	0.039	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2,2'-oxybis[1-chloropropane]	<0.42		0.42	0.059	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253703-1

Client Sample ID: 31V2B-90-M09

Lab Sample ID: 500-253603-9

Date Cdlle7ec: 06/96/24 92:30

r atxio: Sdllic

Date Re7ei. ec: 06/9v/24 92:25

Pex7ent Sdllics: 6V&

r ethdc: SWv41 v260E - Semi. dlatile OXgani7 Cdmpduncs (GC/r S) (Cdntinuec)

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхерхес	Analyzec	Dil Fa7
2,4,5-Trichlorophenol	<0.82		0.82	0.031	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2,4,6-Trichlorophenol	<0.82		0.82	0.028	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2,4-Dichlorophenol	<0.82		0.82	0.029	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2,4-Dimethylphenol	<0.82		0.82	0.19	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2,4-Dinitrophenol	<1.7	F1	1.7	0.48	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2,4-Dinitrotoluene	<0.42		0.42	0.047	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2,6-Dinitrotoluene	<0.42		0.42	0.028	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2-Chloronaphthalene	<0.42	F1	0.42	0.031	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2-Chlorophenol	<0.42	F1	0.42	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2-Methylnaphthalene	<0.17	F1	0.17	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2-Methylphenol	<0.42		0.42	0.044	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2-Nitroaniline	<0.42		0.42	0.044	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
2-Nitrophenol	<0.82		0.82	0.056	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
3 & 4 Methylphenol	<0.42		0.42	0.061	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
3,3'-Dichlorobenzidine	<0.42		0.42	0.068	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
3-Nitroaniline	<0.82		0.82	0.038	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
4,6-Dinitro-2-methylphenol	<1.7	F2	1.7	0.47	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
4-Bromophenyl phenyl ether	<0.42		0.42	0.057	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
4-Chloro-3-methylphenol	<0.82		0.82	0.032	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
4-Chloroaniline	<1.7		1.7	0.87	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
4-Chlorophenyl phenyl ether	<0.42		0.42	0.11	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
4-Nitroaniline	<0.82		0.82	0.061	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
4-Nitrophenol	<1.7		1.7	0.31	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Acenaphthene	<0.082		0.082	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Acenaphthylene	<0.082		0.082	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Anthracene	<0.082		0.082	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Benzo[a]anthracene	<0.082		0.082	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Benzo[a]pyrene	<0.082		0.082	0.080	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Benzo[b]fluoranthene	<0.082		0.082	0.079	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Benzo[g,h,i]perylene	<0.082		0.082	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Benzo[k]fluoranthene	<0.082		0.082	0.031	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Bis(2-chloroethoxy)methane	<0.42		0.42	0.031	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Bis(2-chloroethyl)ether	<0.42		0.42	0.038	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Bis(2-ethylhexyl) phthalate	<0.42		0.42	0.32	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Butyl benzyl phthalate	<0.42		0.42	0.041	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Carbazole	<0.42		0.42	0.033	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Chrysene	<0.082		0.082	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Dibenz(a,h)anthracene	<0.082		0.082	0.082	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Dibenzofuran	<0.42		0.42	0.029	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Diethyl phthalate	<0.42		0.42	0.038	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Dimethyl phthalate	<0.42		0.42	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Di-n-butyl phthalate	<0.42		0.42	0.026	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Di-n-octyl phthalate	<0.82		0.82	0.58	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Fluoranthene	<0.082		0.082	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Fluorene	<0.082		0.082	0.025	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Hexachlorobenzene	<0.17		0.17	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Hexachlorobutadiene	<0.42		0.42	0.047	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Hexachlorocyclopentadiene	<1.7	F2	1.7	0.88	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Hexachloroethane	<0.42	F1	0.42	0.041	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253703-1

Client Sample ID: 31V2B-90-M09

Lab Sample ID: 500-253603-9

Date Cdlle7ec: 06/96/24 92:30

r atxio: Sdllic

Date Re7ei. ec: 06/9v/24 92:25

Pex7ent Sdlics: 6V8/

r ethdc: SWv41 v260E - Semi. dlatile OXgani7 Cdmpduncs (GC/r S) (Cdntinuec)

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхєрхєс	Analyzec	Dil Fa7
Indeno[1,2,3-cd]pyrene	<0.082		0.082	0.081	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Isophorone	<0.42		0.42	0.043	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Naphthalene	<0.082		0.082	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Nitrobenzene	<0.082		0.082	0.026	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
N-Nitrosodi-n-propylamine	<0.17		0.17	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
N-Nitrosodiphenylamine	<0.42		0.42	0.049	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Pentachlorophenol	<1.7		1.7	0.21	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Phenanthrene	<0.082		0.082	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Phenol	<0.42		0.42	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2
Pyrene	<0.082		0.082	0.023	mg/Kg	☆	07/18/24 15:11	07/19/24 19:30	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,z-Trif roB ophenol (Surr)	01		/ 1 - 14/	308l: 04 1951	308l 704 175 3	2
2-Fluorof iphenyl (Surr)	00		4/ - 149	308l: 04 1951	308l 704 175 3	2
2-Fluorophenol (Surr)	zz		/ 1 - 1zz	308l: 04 1951	308l 704 175 3	2
Nitrof enbene-d9 (Surr)	z:		/ 0 - 140	308l: 04 1951	308l 704 175 3	2
Phenol-d9 (Surr)	03		/ 3 - 19/	308l: 04 1951	308l 704 175 3	2
Terphenyl-d14 (Surr)	: 1		42 - 190	308l: 04 1951	308l 704 175 3	2

r ethdc: SWv41 1090D - r etals (ICP)

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхєрхєс	Analyzec	Dil Fa7
Antimony	<2.4		2.4	0.46	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Aseni7	185		1.2	0.41	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Maxium	v5		1.2	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
MeXyllium	084 J		0.48	0.11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:20	1
Mdxdn	68/		6.0	0.56	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Cacmium	084		0.24	0.043	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Cal7ium	99000		24	4.0	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Chxdmium	9V		1.2	0.59	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Cdbalt	99		0.60	0.16	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Cdppex	9v		1.2	0.33	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
lxdn	29000		24	12	mg/Kg	☆	07/26/24 16:07	07/31/24 19:20	1
Leac	26		0.60	0.28	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
r agnesium	v100 M		12	5.9	mg/Kg	☆	07/26/24 16:07	07/31/24 19:20	1
r anganese	310 M		1.2	0.17	mg/Kg	☆	07/26/24 16:07	07/31/24 19:20	1
Ni7kel	23		1.2	0.35	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Pdtassium	9V00		60	21	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Selenium	<1.2		1.2	0.70	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Silver	<0.60		0.60	0.15	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Sdcium	390		120	18	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Thallium	<1.2		1.2	0.59	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Banacium	25		0.60	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1
Zin7	V9		2.4	1.0	mg/Kg	☆	07/26/24 16:07	07/29/24 15:26	1

r ethdc: SWv41 1090D - r etals (ICP) - TCLP

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхєрхєс	Analyzec	Dil Fa7
Iron	<0.20		0.20	0.20	mg/L		07/23/24 15:53	08/02/24 20:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 20:00	1
r anganese	08v		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 14:14	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253703-1

Client Sample ID: 31V2B-90-M09

Lab Sample ID: 500-253603-9

Date Cdlle7tec: 06/96/24 92:30

r atxio: Sdllic

Date Re7ei. ec: 06/9v/24 92:25

Pex7ent Sdllics: 6V8V

r ethdc: SWv41 1090D - r etals (ICP) - SPLP East

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхерахес	Analyzec	Dil Fa7
Aseni7	0029	J	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:46	1
Maxium	086	J	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:46	1
Mdxdn	00v6	J	0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:46	1
Cal7ium	96		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:46	1
Chxdmium	00v0		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:46	1
Cdbalt	0026		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:46	1
lxdn	v0		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 14:11	1
Leac	0010		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:46	1
r anganese	083		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:46	1
Ni7kel	0063		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:46	1
Pdtassium	95		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:46	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:46	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:46	1
Zin7	086	J	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:46	1

r ethdc: SWv41 1020M - r etals (ICP/r S) - SPLP East

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхерахес	Analyzec	Dil Fa7
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 15:38	07/31/24 16:52	1
Thallium	00094	J	0.0020	0.00057	mg/L		07/23/24 15:38	07/31/24 16:52	1

r ethdc: SWv41 6460A - r ex7uxy (CBAA) - SPLP East

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхерахес	Analyzec	Dil Fa7
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 12:00	1

r ethdc: SWv41 6469M - r ex7uxy (CBAA)

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхерахес	Analyzec	Dil Fa7
r ex7uxy	0033		0.018	0.0075	mg/Kg	☆	07/31/24 16:40	08/01/24 09:31	1

Genexal Chemistxy

Analyte	Result	Qualifiex	RL	r DL	Unit	D	Рхерахес	Analyzec	Dil Fa7
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	☆	07/29/24 10:46	07/29/24 16:52	1
pH (SWv41 V045D)	v8		0.2	0.2	SU			07/24/24 19:03	1

Eurofins Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253703-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

Glossary

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253703-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Andrews Engineering, Inc. Page 33 of 34 8/6/2024 (Rev. 1)
T:\DOT Templates\COCa\DOT COC Template (Euroline) \ksc



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: FAI 57 (I-57) Office Phone Number, if available: _____

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

6400-6500 blocks of West Pauling Road (southwest corner of I-57 and Pauling Road)

City: Unincorporated State: IL Zip Code: 60449

County: Will Township: Monee

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

Latitude: 41.39751 Longitude: - 87.76974

(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.): 270

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 3692V-11-B01 WAS SAMPLED AT SITE 3692V-11. SEE TABLE 3f AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253705-1.

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

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

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

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

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Sep 27, 2024

Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 3692V-11
Agricultural Land

		Maximum Allowable Concentration				
Sample ID	3692V-11-B01	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Depth (ft)	0-5					
Sample Date	7/17/2024					
PID	0					
Sample pH	7.4					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 2:19:26 PM Revision 1

JOB DESCRIPTION

IDOT - AE8-030A

JOB NUMBER

500-253705-1

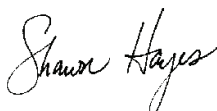
Eurofins Chicago

Job Notes

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

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

Authorization



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

Generated
8/6/2024 2:19:26 PM
Revision 1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253705-1

Client Sample ID: 3692V-11-B01

Lab Sample ID: 500-253705-1

Date Collected: 07/17/24 12:45

Matrix: Solid

Date Received: 07/18/24 13:28

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1h1h1-Tricaloroetapne	<0.0015		0.0015	0.00062	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
1h1h2-Tetrcaloroetapne	<0.0015		0.0015	0.00076	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
1h1h2-Tricaloroetapne	<0.0015		0.0015	0.00057	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
1h1-Dicaloroetapne	<0.0015		0.0015	0.00057	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
1h1-Dicaloroetaene	<0.0015		0.0015	0.00063	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
1h2-Dicaloroetapne	<0.0038		0.0038	0.000, ,	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
1h2-DicaloroBroBpne	<0.0015		0.0015	0.0003,	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
1h8-DicaloroBroBenehTotpl	<0.0015		0.0015	0.00073	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
2-u(tnone M EKH	<0.0038		0.0038	0.0017	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
2-x e9pnone	<0.0038		0.0038	0.0023	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
4-) etayl-2-Bentpnone M luKH	<0.0038		0.0038	0.0027	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Acetone	<0.015		0.015	0.0064	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
uenezene	<0.0015		0.0015	0.00048	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
uromodicalorometapne	<0.0015		0.0015	0.0004,	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
uromoform	<0.0015		0.0015	0.0008,	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
uromometapne	<0.0038		0.0038	0.001,	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Cprbon dis(lfide	<0.0038		0.0038	0.00070	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Cprbon tetrcaloride	<0.0015		0.0015	0.00052	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Calorobenzene	<0.0015		0.0015	0.00064	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Caloroetapne	<0.0038		0.0038	0.0013	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Caloroform	<0.0015		0.0015	0.0011	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Calorometapne	<0.0038		0.0038	0.00074	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
cis-1h2-Dicaloroetaene	<0.0015		0.0015	0.00061	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
cis-1h8-DicaloroBroBene	<0.0015		0.0015	0.00061	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Dibromocalorometapne	<0.0015		0.0015	0.00071	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Etaylbenzene	<0.0015		0.0015	0.00080	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
) etayl tert-b(tyl etaer	<0.0015		0.0015	0.0004,	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
) etaylene Caloride	<0.0038		0.0038	0.0016	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Styrene	<0.0015		0.0015	0.0006,	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Tetrcaloroetaene	<0.0015		0.0015	0.00085	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Tol(ene	<0.0015		0.0015	0.00031	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
trpns-1h2-Dicaloroetaene	<0.0015		0.0015	0.00058	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
trpns-1h8-DicaloroBroBene	<0.0015		0.0015	0.00073	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Tricaloroetaene	<0.0015		0.0015	0.00041	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
Vinyl caloride	<0.0015		0.0015	0.00062	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1
XyleneshTotpl	<0.0030		0.0030	0.00052	mg/Kg	☆	07/18/24 17:25	07/1, /24 1, :46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		03 - 1/4	308: 04 1027	308: 904 1956	1
4-Bromofluorobenzene (Surr)	139		07 - 1/1	308: 04 1027	308: 904 1956	1
Dibromofluoromethane (Surr)	119		07 - 126	308: 04 1027	308: 904 1956	1
Toluene-d: (Surr)	99		07 - 124	308: 04 1027	308: 904 1956	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1h2h4-Tricalorobenzene	<0.20		0.20	0.028	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
1h2-Dicalorobenzene	<0.20		0.20	0.016	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
1h8-Dicalorobenzene	<0.20		0.20	0.018	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
1h4-Dicalorobenzene	<0.20		0.20	0.01,	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2h2Fo9ybis'1-caloroBroBpne[	<0.20		0.20	0.028	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1

E(rofins Caicpgg

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253705-1

Client Sample ID: 3692V-11-B01

Lab Sample ID: 500-253705-1

Date Collected: 07/17/24 12:45

Matrix: Solid

Date Received: 07/18/24 13:28

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorobenzene	<0.3,		0.3,	0.015	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2,4,6-Trichlorobenzene	<0.3,		0.3,	0.013	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2,4-Dichlorobenzene	<0.3,		0.3,	0.014	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2,4-Dimethylbenzene	<0.3,		0.3,	0.088	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2,4-Dinitrobenzene	<0.80		0.80	0.23	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2-Chlorobenzene	<0.20		0.20	0.013	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2-Methylnaphthalene	<0.080		0.080	0.007,	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2-Methylbenzene	<0.20		0.20	0.021	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2-Methyltoluene	<0.20		0.20	0.021	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
2-Methylbenzene	<0.3,		0.3,	0.027	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
3-Methylbenzene	<0.20		0.20	0.02,	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
3,5-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
3-Methyltoluene	<0.3,		0.3,	0.018	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
4,6-Dinitro-2-methylbenzene	<0.80		0.80	0.22	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
4-ethylbenzene	<0.20		0.20	0.027	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
4-Chloro-3-methylbenzene	<0.3,		0.3,	0.015	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
4-Chloronitrobenzene	<0.80		0.80	0.41	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
4-Chlorobenzyl benzene	<0.20		0.20	0.052	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
4-Methyltoluene	<0.3,		0.3,	0.02,	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
4-Methylbenzene	<0.80		0.80	0.15	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Acenaphthene	<0.03,		0.03,	0.0080	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Acenaphthylene	<0.03,		0.03,	0.0067	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Anthracene	<0.03,		0.03,	0.0081	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
benzophenanthrene	<0.03,		0.03,	0.0084	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
benzophenanthrene	<0.03,		0.03,	0.038	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
benzophenanthrene	<0.03,		0.03,	0.038	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
benzophenanthrene	<0.03,		0.03,	0.0085	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
benzophenanthrene	<0.03,		0.03,	0.015	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
1,2-dichlorobenzene	<0.20		0.20	0.015	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
1,2-dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
1,2-dichlorobenzene	<0.20		0.20	0.15	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
1,4-bis(2-ethylphenyl)benzene	<0.20		0.20	0.020	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Chrysene	<0.20		0.20	0.016	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Chrysene	0.020 J		0.03,	0.010	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Dibenzophenanthrene	<0.03,		0.03,	0.03,	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Diethyl benzene	<0.20		0.20	0.018	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Dimethyl benzene	<0.20		0.20	0.0086	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Di-n-butyl benzene	<0.20		0.20	0.012	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Di-n-octyl benzene	<0.3,		0.3,	0.28	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Fluoranthene	0.024 J		0.03,	0.00, 2	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
fluorene	<0.03,		0.03,	0.012	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
9-phenanthrene	<0.080		0.080	0.0076	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
9-phenanthrene	<0.20		0.20	0.022	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
9-phenanthrene	<0.80		0.80	0.42	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
9-phenanthrene	<0.20		0.20	0.020	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1

E(rofins Caicpgg)

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253705-1

Client Sample ID: 3692V-11-B01

Lab Sample ID: 500-253705-1

Date Collected: 07/17/24 12:45

Matrix: Solid

Date Received: 07/18/24 13:28

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno' 1f2f8-cd[Byrene	<0.03,		0.03,	0.038	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
IsoBaorone	<0.20		0.20	0.020	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
] pBataplene	<0.03,		0.03,	0.0071	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
] itrobenzene	<0.03,		0.03,	0.012	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
] -] itrosodi-n-BroBylpmine	<0.080		0.080	0.0078	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
] -] itrosodiBaenylpmine	<0.20		0.20	0.023	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
PentpcaloroBaenol	<0.80		0.80	0.0, ,	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Paenpntarene	<0.03,		0.03,	0.0086	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Paenol	<0.20		0.20	0.017	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1
Pyrene	0.020	J	0.03,	0.011	mg/Kg	☆	07/18/24 15:11	07/1, /24 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0:		/ 1 - 14/	308f: 04 175f1	308f9024 14577	1
2-Fluorobiphenyl (Surr)	: 2		4/ - 147	308f: 04 175f1	308f9024 14577	1
2-Fluorophenol (Surr)	02		/ 1 - 166	308f: 04 175f1	308f9024 14577	1
Nitrobenzene-d7 (Surr)	07		/ 0 - 140	308f: 04 175f1	308f9024 14577	1
Phenol-d7 (Surr)	00		/ 3 - 17/	308f: 04 175f1	308f9024 14577	1
Terphenyl-d14 (Surr)	96		42 - 170	308f: 04 175f1	308f9024 14577	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.42	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Arsenic	7.0		1.1	0.37	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Barium	100		1.1	0.12	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Beryllium	0.46		0.43	0.10	mg/Kg	☆	07/26/24 16:07	07/31/24 1, :25	1
Boron	5.6		5.4	0.51	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Cadmium	0.16	J	0.22	0.03,	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Calcium	2500		22	3.7	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Chromium	18		1.1	0.54	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Cobalt	9.7		0.54	0.14	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Copper	14		1.1	0.30	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Iron	19000		22	11	mg/Kg	☆	07/26/24 16:07	07/31/24 1, :25	1
Lead	20		0.54	0.25	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Magnesium	3400	B	11	5.4	mg/Kg	☆	07/26/24 16:07	07/31/24 1, :25	1
Manganese	460	B	1.1	0.16	mg/Kg	☆	07/26/24 16:07	07/31/24 1, :25	1
Nickel	18		1.1	0.32	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Potassium	1700		54	1,	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Selenium	0.78	J	1.1	0.64	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Silver	<0.54		0.54	0.14	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Sodium	47	J	110	16	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Taplli(m	<1.1		1.1	0.54	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Vanadium	27		0.54	0.13	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1
Zinc	60		2.2	0., 5	mg/Kg	☆	07/26/24 16:07	07/2, /24 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.75		0.20	0.20	mg/L		07/22/24 15:53	07/26/24 00:45	1
Lepd	<0.0075		0.0075	0.0075	mg/L		07/22/24 15:53	07/26/24 00:45	1
Manganese	0.44		0.025	0.010	mg/L		07/22/24 15:53	07/26/24 00:45	1

E(rofins Caicpgp

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253705-1

Client Sample ID: 3692V-11-B01

Lab Sample ID: 500-253705-1

Date Collected: 07/17/24 12:45

Matrix: Solid

Date Received: 07/18/24 13:28

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Barium	0.46	J	0.50	0.050	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Boron	0.086	J	0.10	0.050	mg/L		07/22/24 15:53	07/27/24 03:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Calcium	15		2.5	0.50	mg/L		07/22/24 15:53	07/27/24 03:34	1
Chromium	0.046		0.025	0.010	mg/L		07/22/24 15:53	07/27/24 03:34	1
Cobalt	<0.025		0.025	0.010	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Iron	38		0.40	0.20	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Lead	0.023		0.0075	0.0075	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Manganese	0.39		0.025	0.010	mg/L		07/22/24 15:53	07/27/24 03:34	1
Nickel	0.045		0.025	0.010	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Potassium	6.9		2.5	0.50	mg/L		07/22/24 15:53	07/27/24 03:34	1
Selenium	<0.050		0.050	0.020	mg/L		07/22/24 15:53	07/30/24 01:0,	1
Silver	<0.025		0.025	0.010	mg/L		07/22/24 15:53	07/27/24 03:34	1
Zinc	0.15	J ^+	0.50	0.020	mg/L		07/22/24 15:53	07/30/24 01:0,	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/22/24 15:53	07/25/24 16:3,	1
Thallium	0.00084	J	0.0020	0.00057	mg/L		07/22/24 15:53	07/25/24 16:3,	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/25/24 12:00	07/26/24 12:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0076	mg/Kg	☆	07/30/24 15:20	07/31/24 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide Total (SW846, 012uH)	<0.27		0.27	0.13	mg/Kg	☆	07/2, /24 10:46	07/2, /24 16:58	1
pH (SW846 9045D)	7.4		0.2	0.2	SU			07/24/24 1, :06	1

E(rofins Caicpgp)

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253705-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^+	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

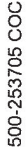
Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253705-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Andrews Engineering, Inc



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: FAI 57 (I-57) Office Phone Number, if available: _____

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

6400 block of West Pauling Road (southeast corner of I-57 and Pauling Road)

City: Unincorporated State: IL Zip Code: 60449

County: Will Township: Monee

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

Latitude: 41.39767 Longitude: - 87.76748

(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.): 505

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 3692V-12-B01 AND 3692V-12-B02 WERE SAMPLED AT SITE 3692V-12. 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-253706-1.

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

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

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

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

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Sep 27, 2024

Date:



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

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

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 3692V-12
Vacant Land

Sample ID	3692V-12-B01-1	3692V-12-B01-2	3692V-12-B01-2 DUP	3692V-12-B02-1	3692V-12-B02-2	Maximum Allowable Concentration				
Sample Depth (ft)	0-6	6-12	6-12	0-6	6-12					
Sample Date	7/17/2024	7/17/2024	7/17/2024	7/17/2024	7/17/2024					
PID	0	0	0	0	0					
Sample pH	7.3	8.1	7.9	7.4	8					
Matrix	Soil	Soil	Soil	Soil	Soil					
Inorganic Compounds, Total (mg/kg)						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
Arsenic	7.4	8.8	8.8	12	1.3	11.3	--	11.3	--	13

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/6/2024 11:30:54 AM

JOB DESCRIPTION

IDOT - AE8-030A

JOB NUMBER

500-253706-1

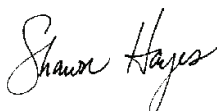
Eurofins Chicago

Job Notes

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

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

Authorization



Generated
8/6/2024 11:30:54 AM

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-1

Lab Sample ID: 500-253706-1

Date Collected: 07/17/24 10:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00072	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00055	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
1,1-Dichloroethane	<0.0015		0.0015	0.00055	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
1,1-Dichloroethene	<0.0015		0.0015	0.00060	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
1,2-Dichloroethane	<0.0036		0.0036	0.00094	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00070	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
2-Hexanone	<0.0036		0.0036	0.0022	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0026	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Acetone	0.015		0.015	0.0061	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Benzene	<0.0015		0.0015	0.00046	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Bromodichloromethane	<0.0015		0.0015	0.00047	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Bromoform	<0.0015		0.0015	0.00085	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Bromomethane	<0.0036		0.0036	0.0018	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Carbon disulfide	<0.0036		0.0036	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Carbon tetrachloride	<0.0015		0.0015	0.00050	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Chlorobenzene	<0.0015		0.0015	0.00061	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Chloroethane	<0.0036		0.0036	0.0012	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Chloroform	<0.0015		0.0015	0.0010	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Chloromethane	<0.0036		0.0036	0.00071	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00058	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Dibromochloromethane	<0.0015		0.0015	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Ethylbenzene	<0.0015		0.0015	0.00077	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00047	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Methylene Chloride	<0.0036		0.0036	0.0016	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Styrene	<0.0015		0.0015	0.00066	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Tetrachloroethene	<0.0015		0.0015	0.00082	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Toluene	<0.0015		0.0015	0.00029	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00055	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00070	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Trichloroethene	<0.0015		0.0015	0.00040	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Vinyl chloride	<0.0015		0.0015	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1
Xylenes, Total	<0.0029		0.0029	0.00050	mg/Kg	☆	07/18/24 17:25	07/22/24 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		07 - 134	70/18/24 10:25	70/22/24 71:28	1
4-9roB ortuorof enbene (Surr)	111		05 - 131	70/18/24 10:25	70/22/24 71:28	1
Dif roB ortuorob ethane (Surr)	113		05 - 122	70/18/24 10:25	70/22/24 71:28	1
6oluene-d8 (Surr)	173		05 - 124	70/18/24 10:25	70/22/24 71:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-1

Lab Sample ID: 500-253706-1

Date Collected: 07/17/24 10:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2-Methylnaphthalene	<0.075		0.075	0.0074	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Acenaphthene	<0.037		0.037	0.0075	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Benzo[g,h,i]perylene	0.071		0.037	0.0080	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Chrysene	<0.037		0.037	0.0098	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Fluoranthene	<0.037		0.037	0.0086	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-1

Lab Sample ID: 500-253706-1

Date Collected: 07/17/24 10:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☆	07/18/24 15:11	07/19/24 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,z-6rif roB oThenol (Surr)	85		31 - 143	70/18/24 15:11	70/1p/24 1z:17	1
2-Fluorof iThenyl (Surr)	0p		43 - 145	70/18/24 15:11	70/1p/24 1z:17	1
2-FluoroThenol (Surr)	07		31 - 1zz	70/18/24 15:11	70/1p/24 1z:17	1
Nitrof enbene-d5 (Surr)	z1		30 - 140	70/18/24 15:11	70/1p/24 1z:17	1
Phenol-d5 (Surr)	03		37 - 153	70/18/24 15:11	70/1p/24 1z:17	1
6erThenyl-d14 (Surr)	p3		42 - 150	70/18/24 15:11	70/1p/24 1z:17	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.41	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Arsenic	7.4		1.1	0.36	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Barium	62		1.1	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Beryllium	0.34	J	0.43	0.099	mg/Kg	☆	07/26/24 16:07	07/31/24 19:37	1
Boron	6.3		5.3	0.50	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Cadmium	0.13	J	0.21	0.038	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Calcium	19000		21	3.6	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Chromium	15		1.1	0.53	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Cobalt	11		0.53	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Copper	21		1.1	0.30	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Iron	20000		21	11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:37	1
Lead	15		0.53	0.25	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Magnesium	13000	B	11	5.3	mg/Kg	☆	07/26/24 16:07	07/31/24 19:37	1
Manganese	540	B	1.1	0.15	mg/Kg	☆	07/26/24 16:07	07/31/24 19:37	1
Nickel	27		1.1	0.31	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Potassium	1400		53	19	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Selenium	<1.1		1.1	0.63	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Silver	<0.53		0.53	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Sodium	660		110	16	mg/Kg	☆	07/26/24 16:07	08/01/24 14:19	1
Thallium	<1.1		1.1	0.53	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Vanadium	19		0.53	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1
Zinc	54		2.1	0.93	mg/Kg	☆	07/26/24 16:07	07/29/24 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.34		0.20	0.20	mg/L		07/23/24 15:53	08/02/24 20:14	1
Lead	0.010		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 20:14	1
Manganese	11		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 14:19	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-1

Lab Sample ID: 500-253706-1

Date Collected: 07/17/24 10:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.039	J	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:50	1
Barium	0.38	J	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:50	1
Boron	0.10		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:50	1
Calcium	22		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:50	1
Chromium	0.084		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:50	1
Cobalt	0.034		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:50	1
Iron	84		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 14:16	1
Lead	0.072		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:50	1
Manganese	0.70		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:50	1
Nickel	0.096		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:50	1
Potassium	18		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:50	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:50	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:50	1
Zinc	0.19	J	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0022	J	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 15:23	1
Thallium	0.0019	J	0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 15:23	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 12:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0077	mg/Kg	✱	07/30/24 15:20	07/31/24 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	07/29/24 10:46	07/29/24 17:06	1
pH (SW846 9045D)	7.3		0.2	0.2	SU			07/24/24 19:12	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-2

Lab Sample ID: 500-253706-2

Date Collected: 07/17/24 10:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00069	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00052	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
1,1-Dichloroethane	<0.0014		0.0014	0.00052	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
1,1-Dichloroethene	<0.0014		0.0014	0.00057	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
1,2-Dichloroethane	<0.0035		0.0035	0.00089	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00066	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
2-Butanone (MEK)	<0.0035		0.0035	0.0015	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
2-Hexanone	<0.0035		0.0035	0.0021	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0025	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Acetone	0.0058	J	0.014	0.0058	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Benzene	<0.0014		0.0014	0.00043	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Bromodichloromethane	<0.0014		0.0014	0.00044	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Bromoform	<0.0014		0.0014	0.00081	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Bromomethane	<0.0035		0.0035	0.0017	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Carbon disulfide	<0.0035		0.0035	0.00064	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Carbon tetrachloride	<0.0014		0.0014	0.00047	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Chlorobenzene	<0.0014		0.0014	0.00058	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Chloroethane	<0.0035		0.0035	0.0011	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Chloroform	<0.0014		0.0014	0.00099	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Chloromethane	<0.0035		0.0035	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00055	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Dibromochloromethane	<0.0014		0.0014	0.00064	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Ethylbenzene	<0.0014		0.0014	0.00073	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00045	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Methylene Chloride	<0.0035		0.0035	0.0015	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Styrene	<0.0014		0.0014	0.00062	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Tetrachloroethene	<0.0014		0.0014	0.00077	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Toluene	<0.0014		0.0014	0.00028	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00052	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00066	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Trichloroethene	<0.0014		0.0014	0.00038	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Vinyl chloride	<0.0014		0.0014	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1
Xylenes, Total	<0.0028		0.0028	0.00047	mg/Kg	☆	07/18/24 17:25	07/22/24 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		07 - 134	70/18/24 10:25	70/22/24 71:53	1
4-9roB or tuoro f enbene (Surr)	110		05 - 131	70/18/24 10:25	70/22/24 71:53	1
Dif roB or tuoroB ethane (Surr)	11z		05 - 12z	70/18/24 10:25	70/22/24 71:53	1
6oluene-d8 (Surr)	177		05 - 124	70/18/24 10:25	70/22/24 71:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-2

Lab Sample ID: 500-253706-2

Date Collected: 07/17/24 10:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2-Methylnaphthalene	0.067	J	0.076	0.0075	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
4-Chloroaniline	<0.76		0.76	0.39	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Acenaphthylene	<0.037		0.037	0.0064	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Benzo[g,h,i]perylene	0.024	J	0.037	0.0081	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Carbazole	<0.19		0.19	0.015	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Chrysene	<0.037		0.037	0.0099	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Fluoranthene	<0.037		0.037	0.0087	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Fluorene	<0.037		0.037	0.011	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✱	07/18/24 15:11	07/19/24 16:35	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-2

Lab Sample ID: 500-253706-2

Date Collected: 07/17/24 10:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
Naphthalene	0.011	J	0.037	0.0068	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0074	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
Pentachlorophenol	<0.76		0.76	0.094	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
Phenanthrene	0.051		0.037	0.0081	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1
Pyrene	0.017	J	0.037	0.010	mg/Kg	☆	07/18/24 15:11	07/19/24 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,z-6rif roB oThenol (Surr)	02		31 - 143	70/18/24 15:11	70/1p/24 1z:35	1
2-Fluorof iThenyl (Surr)	82		43 - 145	70/18/24 15:11	70/1p/24 1z:35	1
2-FluoroThenol (Surr)	0z		31 - 1zz	70/18/24 15:11	70/1p/24 1z:35	1
Nitrof enbene-d5 (Surr)	05		30 - 140	70/18/24 15:11	70/1p/24 1z:35	1
Phenol-d5 (Surr)	0z		37 - 153	70/18/24 15:11	70/1p/24 1z:35	1
6erThenyl-d14 (Surr)	88		42 - 150	70/18/24 15:11	70/1p/24 1z:35	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.40	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Arsenic	8.8		1.0	0.35	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Barium	37		1.0	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Beryllium	0.30	J	0.41	0.097	mg/Kg	☆	07/26/24 16:07	07/31/24 19:50	1
Boron	9.2		5.2	0.48	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Cadmium	0.16	J	0.21	0.037	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Calcium	29000		21	3.5	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Chromium	14		1.0	0.51	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Cobalt	11		0.52	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Copper	26		1.0	0.29	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Iron	20000		21	11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:50	1
Lead	15		0.52	0.24	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Magnesium	17000	B	10	5.1	mg/Kg	☆	07/26/24 16:07	07/31/24 19:50	1
Manganese	310	B	1.0	0.15	mg/Kg	☆	07/26/24 16:07	07/31/24 19:50	1
Nickel	31		1.0	0.30	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Potassium	1900		52	18	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Selenium	0.63	J	1.0	0.61	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Silver	<0.52		0.52	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Sodium	110		100	15	mg/Kg	☆	07/26/24 16:07	08/01/24 14:23	1
Thallium	<1.0		1.0	0.52	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Vanadium	16		0.52	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1
Zinc	63		2.1	0.91	mg/Kg	☆	07/26/24 16:07	07/29/24 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		07/23/24 15:53	08/02/24 20:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 20:18	1
Manganese	6.3		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 14:24	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-2

Lab Sample ID: 500-253706-2

Date Collected: 07/17/24 10:45

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.031	J	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:54	1
Barium	0.19	J	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:54	1
Boron	0.11		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:54	1
Calcium	19		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:54	1
Chromium	0.070		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:54	1
Cobalt	0.035		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:54	1
Iron	91		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 14:29	1
Lead	0.039		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:54	1
Manganese	0.65		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:54	1
Nickel	0.092		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:54	1
Potassium	21		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:54	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:54	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:54	1
Zinc	0.19	J	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0013	J	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 15:27	1
Thallium	0.0020		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 15:27	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 12:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0071	mg/Kg	✱	07/30/24 15:20	07/31/24 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	✱	07/30/24 11:35	07/31/24 12:52	1
pH (SW846 9045D)	8.1		0.2	0.2	SU			07/24/24 19:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B02-1

Lab Sample ID: 500-253706-3

Date Collected: 07/17/24 11:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00058	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00072	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00054	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
1,1-Dichloroethane	<0.0014		0.0014	0.00054	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
1,1-Dichloroethene	<0.0014		0.0014	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
1,2-Dichloroethane	<0.0036		0.0036	0.00094	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00069	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
2-Hexanone	<0.0036		0.0036	0.0022	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0026	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Acetone	<0.014		0.014	0.0061	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Benzene	<0.0014		0.0014	0.00045	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Bromodichloromethane	<0.0014		0.0014	0.00046	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Bromoform	<0.0014		0.0014	0.00084	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Bromomethane	<0.0036		0.0036	0.0018	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Carbon disulfide	<0.0036		0.0036	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Carbon tetrachloride	<0.0014		0.0014	0.00049	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Chlorobenzene	<0.0014		0.0014	0.00061	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Chloroethane	<0.0036		0.0036	0.0012	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Chloromethane	<0.0036		0.0036	0.00070	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00058	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00058	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Dibromochloromethane	<0.0014		0.0014	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Ethylbenzene	<0.0014		0.0014	0.00076	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00047	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Methylene Chloride	<0.0036		0.0036	0.0015	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Styrene	<0.0014		0.0014	0.00065	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Tetrachloroethene	<0.0014		0.0014	0.00081	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Toluene	<0.0014		0.0014	0.00029	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00055	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00069	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Trichloroethene	<0.0014		0.0014	0.00039	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Vinyl chloride	<0.0014		0.0014	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1
Xylenes, Total	<0.0029		0.0029	0.00050	mg/Kg	☆	07/18/24 17:25	07/22/24 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		07 - 134	70/18/24 10:25	70/22/24 72:10	1
4-9roB ortuorof enbene (Surr)	178		05 - 131	70/18/24 10:25	70/22/24 72:10	1
Dif roB ortuorob ethane (Surr)	114		05 - 122	70/18/24 10:25	70/22/24 72:10	1
6oluene-d8 (Surr)	171		05 - 124	70/18/24 10:25	70/22/24 72:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B02-1

Lab Sample ID: 500-253706-3

Date Collected: 07/17/24 11:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2-Methylnaphthalene	<0.076		0.076	0.0076	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Acenaphthylene	<0.038		0.038	0.0064	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Anthracene	0.010	J	0.038	0.0077	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Benzo[a]pyrene	<0.038		0.038	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Benzo[g,h,i]perylene	0.046		0.038	0.0082	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Di-n-octyl phthalate	<0.38		0.38	0.26	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Fluoranthene	0.046		0.038	0.0088	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Hexachlorobenzene	<0.076		0.076	0.0073	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B02-1

Lab Sample ID: 500-253706-3

Date Collected: 07/17/24 11:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.037	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Naphthalene	<0.038		0.038	0.0068	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0075	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Pentachlorophenol	<0.76		0.76	0.095	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Phenanthrene	0.034	J	0.038	0.0082	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1
Pyrene	0.045		0.038	0.010	mg/Kg	☆	07/18/24 15:11	07/19/24 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,z-6rif roB oThenol (Surr)	04		31 - 143	70/18/24 15:11	70/1p/24 10:77	1
2-Fluorof iThenyl (Surr)	05		43 - 145	70/18/24 15:11	70/1p/24 10:77	1
2-FluoroThenol (Surr)	zp		31 - 1zz	70/18/24 15:11	70/1p/24 10:77	1
Nitrof enbene-d5 (Surr)	z1		30 - 140	70/18/24 15:11	70/1p/24 10:77	1
Phenol-d5 (Surr)	01		37 - 153	70/18/24 15:11	70/1p/24 10:77	1
6erThenyl-d14 (Surr)	88		42 - 150	70/18/24 15:11	70/1p/24 10:77	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.42	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Arsenic	12		1.1	0.37	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Barium	54		1.1	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Beryllium	0.42	J	0.43	0.10	mg/Kg	☆	07/26/24 16:07	07/31/24 19:54	1
Boron	9.2		5.4	0.50	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Cadmium	0.084	J	0.22	0.039	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Calcium	21000		22	3.7	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Chromium	16		1.1	0.53	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Cobalt	13		0.54	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Copper	27		1.1	0.30	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Iron	22000		22	11	mg/Kg	☆	07/26/24 16:07	07/31/24 19:54	1
Lead	17		0.54	0.25	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Magnesium	15000	B	11	5.3	mg/Kg	☆	07/26/24 16:07	07/31/24 19:54	1
Manganese	390	B	1.1	0.16	mg/Kg	☆	07/26/24 16:07	07/31/24 19:54	1
Nickel	33		1.1	0.31	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Potassium	1900		54	19	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Selenium	0.92	J	1.1	0.63	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Silver	<0.54		0.54	0.14	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Sodium	190		110	16	mg/Kg	☆	07/26/24 16:07	08/01/24 14:28	1
Thallium	<1.1		1.1	0.54	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Vanadium	21		0.54	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1
Zinc	64		2.2	0.95	mg/Kg	☆	07/26/24 16:07	07/29/24 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.54		0.20	0.20	mg/L		07/23/24 15:53	08/02/24 20:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:53	08/02/24 20:23	1
Manganese	12		0.025	0.010	mg/L		07/23/24 15:53	07/29/24 14:28	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B02-1

Lab Sample ID: 500-253706-3

Date Collected: 07/17/24 11:15

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018	J	0.050	0.010	mg/L		07/23/24 15:38	08/01/24 16:59	1
Barium	0.20	J	0.50	0.050	mg/L		07/23/24 15:38	08/01/24 16:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 16:59	1
Boron	0.065	J	0.10	0.050	mg/L		07/23/24 15:38	08/01/24 16:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 16:59	1
Calcium	20		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:59	1
Chromium	0.045		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:59	1
Cobalt	0.017	J	0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:59	1
Iron	49		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 14:33	1
Lead	0.033		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 16:59	1
Manganese	0.34		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:59	1
Nickel	0.052		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:59	1
Potassium	11		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 16:59	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 16:59	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 16:59	1
Zinc	0.097	J	0.50	0.020	mg/L		07/23/24 15:38	08/01/24 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0019	J	0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 15:31	1
Thallium	0.0012	J	0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 15:31	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 12:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0073	mg/Kg	✱	07/30/24 15:20	07/31/24 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	07/30/24 12:46	07/31/24 12:36	1
pH (SW846 9045D)	7.4		0.2	0.2	SU			07/24/24 19:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B02-2

Lab Sample ID: 500-253706-4

Date Collected: 07/17/24 11:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
1,1,2,2-Tetrachloroethane	<0.0014	*3	0.0014	0.00069	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00052	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
1,1-Dichloroethane	<0.0014		0.0014	0.00052	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
1,1-Dichloroethene	<0.0014		0.0014	0.00057	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
1,2-Dichloroethane	<0.0035		0.0035	0.00090	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
2-Butanone (MEK)	<0.0035		0.0035	0.0015	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
2-Hexanone	<0.0035		0.0035	0.0021	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0025	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Acetone	<0.014		0.014	0.0058	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Benzene	<0.0014		0.0014	0.00044	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Bromodichloromethane	<0.0014		0.0014	0.00045	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Bromoform	<0.0014		0.0014	0.00081	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Bromomethane	<0.0035		0.0035	0.0017	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Carbon disulfide	<0.0035		0.0035	0.00064	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Carbon tetrachloride	<0.0014		0.0014	0.00047	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Chlorobenzene	<0.0014		0.0014	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Chloroethane	<0.0035		0.0035	0.0011	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Chloromethane	<0.0035		0.0035	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00056	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Dibromochloromethane	<0.0014		0.0014	0.00065	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Ethylbenzene	<0.0014		0.0014	0.00073	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00045	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Methylene Chloride	<0.0035		0.0035	0.0015	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Styrene	<0.0014		0.0014	0.00063	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Tetrachloroethene	<0.0014		0.0014	0.00078	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Toluene	<0.0014		0.0014	0.00028	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00053	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Trichloroethene	<0.0014		0.0014	0.00038	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Vinyl chloride	<0.0014		0.0014	0.00057	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1
Xylenes, Total	<0.0028		0.0028	0.00048	mg/Kg	☆	07/18/24 17:25	07/22/24 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		07 - 134	70/18/24 10:25	70/22/24 72:41	1
4-9roB or tuoro f enbene (Surr)	128	S1+ *3	05 - 131	70/18/24 10:25	70/22/24 72:41	1
Dif roB or tuoroB ethane (Surr)	127		05 - 122	70/18/24 10:25	70/22/24 72:41	1
6oluene-d8 (Surr)	123		05 - 124	70/18/24 10:25	70/22/24 72:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B02-2

Lab Sample ID: 500-253706-4

Date Collected: 07/17/24 11:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2-Methylnaphthalene	<0.076		0.076	0.0075	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
4-Chloroaniline	<0.76		0.76	0.39	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Acenaphthylene	<0.037		0.037	0.0064	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Anthracene	<0.037		0.037	0.0077	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Benzo[a]anthracene	<0.037		0.037	0.0080	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0081	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Chrysene	<0.037		0.037	0.0099	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Fluoranthene	<0.037		0.037	0.0087	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 17:25	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B02-2

Lab Sample ID: 500-253706-4

Date Collected: 07/17/24 11:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.037	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
Isophorone	<0.19		0.19	0.019	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
Naphthalene	<0.037		0.037	0.0068	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0074	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
Pentachlorophenol	<0.76		0.76	0.094	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
Phenanthrene	<0.037		0.037	0.0082	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
Phenol	<0.19		0.19	0.016	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1
Pyrene	<0.037		0.037	0.010	mg/Kg	✱	07/18/24 15:11	07/19/24 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,z-6rif roB oThenol (Surr)	84		31 - 143	70/18/24 15:11	70/1p/24 10:25	1
2-Fluorof iThenyl (Surr)	84		43 - 145	70/18/24 15:11	70/1p/24 10:25	1
2-FluoroThenol (Surr)	08		31 - 1zz	70/18/24 15:11	70/1p/24 10:25	1
Nitrof enbene-d5 (Surr)	z8		30 - 140	70/18/24 15:11	70/1p/24 10:25	1
Phenol-d5 (Surr)	0p		37 - 153	70/18/24 15:11	70/1p/24 10:25	1
6erThenyl-d14 (Surr)	p2		42 - 150	70/18/24 15:11	70/1p/24 10:25	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2	0.42	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Arsenic	7.4		1.1	0.37	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Barium	39		1.1	0.12	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Beryllium	0.35	J	0.43	0.10	mg/Kg	✱	07/26/24 16:07	07/31/24 19:58	1
Boron	12		5.4	0.50	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Cadmium	0.16	J	0.22	0.039	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Calcium	34000		22	3.7	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Chromium	16		1.1	0.53	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Cobalt	12		0.54	0.14	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Copper	22		1.1	0.30	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Iron	20000		22	11	mg/Kg	✱	07/26/24 16:07	07/31/24 19:58	1
Lead	14		0.54	0.25	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Magnesium	20000	B	11	5.3	mg/Kg	✱	07/26/24 16:07	07/31/24 19:58	1
Manganese	520	B	1.1	0.16	mg/Kg	✱	07/26/24 16:07	07/31/24 19:58	1
Nickel	30		1.1	0.31	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Potassium	2400		54	19	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Selenium	<1.1		1.1	0.63	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Silver	<0.54		0.54	0.14	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Sodium	120		110	16	mg/Kg	✱	07/26/24 16:07	08/01/24 14:59	1
Thallium	<1.1		1.1	0.54	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Vanadium	18		0.54	0.13	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1
Zinc	67		2.2	0.95	mg/Kg	✱	07/26/24 16:07	07/29/24 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 15:38	08/01/24 17:03	1
Barium	<0.50		0.50	0.050	mg/L		07/23/24 15:38	08/01/24 17:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 17:03	1
Boron	<0.10		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 17:03	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B02-2

Lab Sample ID: 500-253706-4

Date Collected: 07/17/24 11:30

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 17:03	1
Calcium	19		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:03	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:03	1
Cobalt	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:03	1
Iron	4.7		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 15:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 17:03	1
Manganese	0.081		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:03	1
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:03	1
Potassium	3.0		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:03	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 17:03	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:03	1
Zinc	<0.50		0.50	0.020	mg/L		07/23/24 15:38	08/01/24 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 15:35	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 15:35	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 12:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0075	mg/Kg	☆	07/30/24 15:20	07/31/24 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	☆	07/30/24 12:46	07/31/24 12:37	1
pH (SW846 9045D)	8.0		0.2	0.2	SU			07/24/24 19:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-2 Dup

Lab Sample ID: 500-253706-7

Date Collected: 07/17/24 11:00

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00072	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00054	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
1,1-Dichloroethane	<0.0014		0.0014	0.00054	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
1,1-Dichloroethene	<0.0014		0.0014	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
1,2-Dichloroethane	<0.0036		0.0036	0.00094	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00069	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
2-Hexanone	<0.0036		0.0036	0.0022	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0026	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Acetone	0.0075	J	0.014	0.0061	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Benzene	<0.0014		0.0014	0.00045	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Bromodichloromethane	<0.0014		0.0014	0.00046	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Bromoform	<0.0014		0.0014	0.00084	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Bromomethane	<0.0036		0.0036	0.0018	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Carbon disulfide	<0.0036		0.0036	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Carbon tetrachloride	<0.0014		0.0014	0.00049	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Chlorobenzene	<0.0014		0.0014	0.00061	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Chloroethane	<0.0036		0.0036	0.0012	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Chloromethane	<0.0036		0.0036	0.00070	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00058	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00058	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Dibromochloromethane	<0.0014		0.0014	0.00067	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Ethylbenzene	<0.0014		0.0014	0.00076	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00047	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Methylene Chloride	<0.0036		0.0036	0.0015	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Styrene	<0.0014		0.0014	0.00065	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Tetrachloroethene	<0.0014		0.0014	0.00081	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Toluene	<0.0014		0.0014	0.00029	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00055	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00069	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Trichloroethene	<0.0014		0.0014	0.00039	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Vinyl chloride	<0.0014		0.0014	0.00059	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1
Xylenes, Total	<0.0029		0.0029	0.00050	mg/Kg	☆	07/18/24 17:25	07/22/24 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		07 - 134	70/18/24 10:25	70/22/24 73:55	1
4-9roB or tuoro f enbene (Surr)	121		05 - 131	70/18/24 10:25	70/22/24 73:55	1
Dif roB or tuoroB ethane (Surr)	113		05 - 12z	70/18/24 10:25	70/22/24 73:55	1
6oluene-d8 (Surr)	17z		05 - 124	70/18/24 10:25	70/22/24 73:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.026	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-2 Dup

Lab Sample ID: 500-253706-7

Date Collected: 07/17/24 11:00

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2-Methylnaphthalene	0.079		0.075	0.0074	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.048	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Acenaphthene	<0.037		0.037	0.0075	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Benzo[g,h,i]perylene	0.027 J		0.037	0.0080	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.14	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Chrysene	<0.037		0.037	0.0098	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Dimethyl phthalate	<0.19		0.19	0.0080	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Fluoranthene	<0.037		0.037	0.0086	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-2 Dup

Lab Sample ID: 500-253706-7

Date Collected: 07/17/24 11:00

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Naphthalene	0.025	J	0.037	0.0067	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Phenanthrene	0.051		0.037	0.0080	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1
Pyrene	0.018	J	0.037	0.010	mg/Kg	☆	07/18/24 15:11	07/19/24 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,z-6rif roB oThenol (Surr)	07		31 - 143	70/18/24 15:11	70/1p/24 18:3p	1
2-Fluorof iThenyl (Surr)	83		43 - 145	70/18/24 15:11	70/1p/24 18:3p	1
2-FluoroThenol (Surr)	00		31 - 1zz	70/18/24 15:11	70/1p/24 18:3p	1
Nitrof enbene-d5 (Surr)	0z		30 - 140	70/18/24 15:11	70/1p/24 18:3p	1
Phenol-d5 (Surr)	00		37 - 153	70/18/24 15:11	70/1p/24 18:3p	1
6erThenyl-d14 (Surr)	p2		42 - 150	70/18/24 15:11	70/1p/24 18:3p	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Arsenic	8.8		1.0	0.34	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Barium	42		1.0	0.11	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Beryllium	0.28	J	0.40	0.093	mg/Kg	☆	07/26/24 16:07	07/31/24 20:11	1
Boron	10		5.0	0.47	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Cadmium	0.16	J	0.20	0.036	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Calcium	26000		20	3.4	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Chromium	15		1.0	0.50	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Cobalt	12		0.50	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Copper	23		1.0	0.28	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Iron	21000		20	10	mg/Kg	☆	07/26/24 16:07	07/31/24 20:11	1
Lead	16		0.50	0.23	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Magnesium	16000	B	10	5.0	mg/Kg	☆	07/26/24 16:07	07/31/24 20:11	1
Manganese	360	B	1.0	0.15	mg/Kg	☆	07/26/24 16:07	07/31/24 20:11	1
Nickel	31		1.0	0.29	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Potassium	2100		50	18	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Selenium	<1.0		1.0	0.59	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Silver	<0.50		0.50	0.13	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Sodium	110		100	15	mg/Kg	☆	07/26/24 16:07	08/01/24 15:11	1
Thallium	<1.0		1.0	0.50	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Vanadium	19		0.50	0.12	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1
Zinc	61		2.0	0.88	mg/Kg	☆	07/26/24 16:07	07/29/24 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/23/24 15:38	08/01/24 17:16	1
Barium	<0.50		0.50	0.050	mg/L		07/23/24 15:38	08/01/24 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/23/24 15:38	08/01/24 17:16	1
Boron	<0.10		0.10	0.050	mg/L		07/23/24 15:38	08/01/24 17:16	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Client Sample ID: 3692V-12-B01-2 Dup

Lab Sample ID: 500-253706-7

Date Collected: 07/17/24 11:00

Matrix: Solid

Date Received: 07/18/24 12:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/23/24 15:38	08/01/24 17:16	1
Calcium	18		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:16	1
Chromium	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:16	1
Cobalt	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:16	1
Iron	4.4		0.40	0.20	mg/L		08/01/24 16:35	08/02/24 15:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/23/24 15:38	08/01/24 17:16	1
Manganese	0.13		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:16	1
Nickel	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:16	1
Potassium	3.2		2.5	0.50	mg/L		07/23/24 15:38	08/01/24 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		07/23/24 15:38	08/01/24 17:16	1
Silver	<0.025		0.025	0.010	mg/L		07/23/24 15:38	08/01/24 17:16	1
Zinc	<0.50		0.50	0.020	mg/L		07/23/24 15:38	08/01/24 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0013	mg/L		07/23/24 15:38	07/25/24 15:46	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/23/24 15:38	07/25/24 15:46	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/24 10:20	08/01/24 12:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0073	mg/Kg	☆	07/30/24 15:20	07/31/24 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	☆	07/30/24 12:46	07/31/24 12:42	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			07/24/24 19:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-030A

Job ID: 500-253706-1

Qualifiers

GC/MS m/O

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

GC/MS Sep i m/O

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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 are the only abbreviations that 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 - AE8-030A

Job ID: 500-253706-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email jodie.bracken@ETEurofinsUS.com	Project Name <u>RES 030A</u> Project No <u>RTS/NO#: 95002130</u> TAT ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ☐ Other _____ COC No _____ of _____ Lab Job No.: <u>500-253706</u> Sample Temp: <u>35+3.2, 19+1.4</u>															
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide																	
ANALYSES																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	3692V-12-B01-1	01/17/24	1030		X	X					X	X	X	X	X		
2	3692V-12-B01-2		1045		X	X					X	X	X	X	X		
3	3692V-12-B02-1		1115		X	X					X	X	X	X	X		
4	3692V-12-B02-2		1130		X	X					X	X	X	X	X		
5	3692V-12-B03-1		1145		X	X					X	X	X	X	X		
6	3692V-12-B03-2		1200		X	X					X	X	X	X	X		
7	3692V-12-B01-2 DUP		1100		X	X					X	X	X	X	X		
8	Trip Blank #1				X												
Relinquished by <u>[Signature]</u>					Date/Time <u>01/18/24 10:26</u>	Received by <u>J. Daniel Kinsman</u>					Date/Time <u>7/18/24 10:26</u>						
Relinquished by <u>[Signature]</u>					Date/Time <u>7/18/24 12:25</u>	Received by <u>Stephanie Hernandez</u>					Date/Time <u>7/18/24 12:25</u>						
Relinquished by _____					Date/Time _____	Received by _____					Date/Time _____						