



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 290 (I-290) Office Phone Number, if available: _____

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

2200 block of I-290 (I-290 at Leavitt Street, Station 901+00 to Station 903+00 (Centerline WB I-290), 0 to 70 feet LT)

City: Chicago State: IL Zip Code: 60612

County: Cook Township: near West Side

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

Latitude: 41.87559 Longitude: - 87.68139

(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: 0316283002 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 88

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 3054V2-1-B04 WAS SAMPLED ADJACENT TO SITE 3054V2-1. SEE TABLE 3a AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-259123-1.

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:

Nov 20, 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 3054V2-1

ROW

Sample ID	3054V2-1-B04	Maximum Allowable Concentration					
Sample Depth (ft)	0-7						
Sample Date	10/25/2024	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area	
PID	0						
Sample pH	7.9						
Matrix	Soil						
Semivolatile Organic Compounds (mg/kg)							
Benzo(a)pyrene	0.78	1,2	0.09	0.09	0.98	11	2.1
Benzo(b)fluoranthene	0.96	1,2,3	0.9	0.9	0.9	13	2.1
Dibenzo(a,h)anthracene	0.16	1,2,3	0.09	0.09	0.15	1	0.42

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/8/2024 3:39:30 PM

JOB DESCRIPTION

IDOT - AE8-037A

JOB NUMBER

500-259123-1

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



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Authorized for release by
Jodie Bracken, Project Manager I
Joann.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-037A

Job ID: 500-259123-1

Client Sample ID: 3054V2-1-B04

Lab Sample ID: 500-259123-4

Date Collected: 10/25/24 08:30

Matrix: Solid

Date Received: 10/25/24 17:33

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00057	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00070	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00053	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
1,1-Dichloroethane	<0.0014		0.0014	0.00053	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
1,1-Dichloroethene	<0.0014		0.0014	0.00058	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
1,2-Dichloroethane	<0.0035		0.0035	0.00091	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00068	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
2-Butanone (MEK)	<0.0035		0.0035	0.0015	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
2-Hexanone	<0.0035		0.0035	0.0021	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0025	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Acetone	<0.014		0.014	0.0059	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Benzene	<0.0014		0.0014	0.00044	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Bromodichloromethane	<0.0014		0.0014	0.00045	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Bromoform	<0.0014		0.0014	0.00082	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Bromomethane	<0.0035		0.0035	0.0017	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Carbon disulfide	<0.0035		0.0035	0.00065	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Carbon tetrachloride	<0.0014	+	0.0014	0.00048	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Chlorobenzene	<0.0014		0.0014	0.00059	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Chloroethane	<0.0035		0.0035	0.0012	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Chloroform	<0.0014		0.0014	0.0010	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Chloromethane	<0.0035	+	0.0035	0.00068	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00057	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00056	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Dibromochloromethane	<0.0014		0.0014	0.00065	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Ethylbenzene	<0.0014		0.0014	0.00074	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00045	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Methylene Chloride	<0.0035		0.0035	0.0015	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Styrene	<0.0014		0.0014	0.00063	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Tetrachloroethene	<0.0014		0.0014	0.00079	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Toluene	<0.0014		0.0014	0.00028	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00053	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00068	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Trichloroethene	<0.0014		0.0014	0.00038	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Vinyl chloride	<0.0014	+	0.0014	0.00058	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1
Xylenes, Total	<0.0028		0.0028	0.00048	mg/Kg	☆	10/26/24 08:45	11/02/24 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	10/26/24 08:45	11/02/24 01:44	1
4-Bromofluorobenzene (Surr)	114		75 - 131	10/26/24 08:45	11/02/24 01:44	1
Dibromofluoromethane (Surr)	104		75 - 126	10/26/24 08:45	11/02/24 01:44	1
Toluene-d8 (Surr)	96		75 - 124	10/26/24 08:45	11/02/24 01:44	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	☆	10/30/24 15:58	10/31/24 18:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-037A

Job ID: 500-259123-1

Client Sample ID: 3054V2-1-B04

Lab Sample ID: 500-259123-4

Date Collected: 10/25/24 08:30

Matrix: Solid

Date Received: 10/25/24 17:33

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.015	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2-Methylnaphthalene	0.024	J	0.079	0.0079	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
4-Nitrophenol	<0.79		0.79	0.15	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Acenaphthene	0.029	J	0.039	0.0080	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Acenaphthylene	0.067		0.039	0.0067	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Anthracene	0.14		0.039	0.0080	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Benzo[a]anthracene	0.63		0.039	0.0083	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Benzo[a]pyrene	0.78		0.039	0.038	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Benzo[b]fluoranthene	0.96		0.039	0.037	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Benzo[g,h,i]perylene	0.50		0.039	0.0085	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Benzo[k]fluoranthene	0.33		0.039	0.015	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Carbazole	0.036	J	0.20	0.016	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Chrysene	0.67		0.039	0.010	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Dibenz(a,h)anthracene	0.16		0.039	0.039	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Dibenzofuran	0.024	J	0.20	0.014	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Fluoranthene	1.1		0.039	0.0091	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Fluorene	0.034	J	0.039	0.012	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.42	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-037A

Job ID: 500-259123-1

Client Sample ID: 3054V2-1-B04

Lab Sample ID: 500-259123-4

Date Collected: 10/25/24 08:30

Matrix: Solid

Date Received: 10/25/24 17:33

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.49		0.039	0.038	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Naphthalene	0.046		0.039	0.0071	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0078	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Phenanthrene	0.51		0.039	0.0086	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1
Pyrene	1.2		0.039	0.011	mg/Kg	☆	10/30/24 15:58	10/31/24 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		31 - 143	10/30/24 15:58	10/31/24 18:27	1
2-Fluorobiphenyl (Surr)	76		43 - 145	10/30/24 15:58	10/31/24 18:27	1
2-Fluorophenol (Surr)	76		31 - 166	10/30/24 15:58	10/31/24 18:27	1
Nitrobenzene-d5 (Surr)	77		37 - 147	10/30/24 15:58	10/31/24 18:27	1
Phenol-d5 (Surr)	79		30 - 153	10/30/24 15:58	10/31/24 18:27	1
Terphenyl-d14 (Surr)	89		42 - 157	10/30/24 15:58	10/31/24 18:27	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.45	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Arsenic	9.5		1.2	0.39	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Barium	94		1.2	0.13	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Beryllium	0.88		0.46	0.11	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Boron	26		5.8	0.54	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Cadmium	0.55		0.23	0.041	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Calcium	35000	B	23	3.9	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Chromium	22		1.2	0.57	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Cobalt	14		0.58	0.15	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Copper	46		1.2	0.32	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Iron	21000		23	12	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Lead	110		0.58	0.27	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Magnesium	17000		12	5.7	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Manganese	330		1.2	0.17	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Nickel	37		1.2	0.34	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Potassium	3800		58	20	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Selenium	0.72	J	1.2	0.68	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Silver	<0.58		0.58	0.15	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Sodium	820		120	17	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Thallium	0.93	J	1.2	0.58	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Vanadium	30		0.58	0.14	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	1
Zinc	120		2.3	1.0	mg/Kg	☆	11/01/24 09:23	11/02/24 04:08	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		11/04/24 14:50	11/06/24 02:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/04/24 14:50	11/06/24 02:37	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		11/04/24 14:50	11/06/24 02:37	1
Chromium	<0.025		0.025	0.010	mg/L		11/04/24 14:50	11/06/24 02:37	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-037A

Job ID: 500-259123-1

Client Sample ID: 3054V2-1-B04

Lab Sample ID: 500-259123-4

Date Collected: 10/25/24 08:30

Matrix: Solid

Date Received: 10/25/24 17:33

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.2		0.40	0.20	mg/L		11/04/24 14:50	11/06/24 02:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/04/24 14:50	11/06/24 02:37	1
Manganese	0.30		0.025	0.010	mg/L		11/04/24 14:50	11/06/24 02:37	1
Nickel	0.015	J	0.025	0.010	mg/L		11/04/24 14:50	11/06/24 02:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		11/04/24 14:50	11/06/24 01:17	1
Barium	1.1		0.50	0.050	mg/L		11/04/24 14:50	11/06/24 01:17	1
Beryllium	0.016		0.0040	0.0040	mg/L		11/04/24 14:50	11/06/24 01:17	1
Boron	0.40		0.10	0.050	mg/L		11/04/24 14:50	11/06/24 14:42	1
Cadmium	0.0094		0.0050	0.0020	mg/L		11/04/24 14:50	11/06/24 01:17	1
Calcium	160		2.5	0.50	mg/L		11/04/24 14:50	11/06/24 01:17	1
Chromium	0.39		0.025	0.010	mg/L		11/04/24 14:50	11/06/24 01:17	1
Cobalt	0.17		0.025	0.010	mg/L		11/04/24 14:50	11/06/24 01:17	1
Iron	340		0.40	0.20	mg/L		11/04/24 14:50	11/06/24 01:17	1
Lead	0.77		0.0075	0.0075	mg/L		11/04/24 14:50	11/06/24 01:17	1
Manganese	2.2		0.025	0.010	mg/L		11/04/24 14:50	11/06/24 01:17	1
Nickel	0.59		0.025	0.010	mg/L		11/04/24 14:50	11/06/24 01:17	1
Potassium	66		2.5	0.50	mg/L		11/04/24 14:50	11/06/24 01:17	1
Selenium	<0.050		0.050	0.020	mg/L		11/04/24 14:50	11/06/24 01:17	1
Silver	<0.025		0.025	0.010	mg/L		11/04/24 14:50	11/06/24 01:17	1
Zinc	1.7		0.50	0.020	mg/L		11/04/24 14:50	11/06/24 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0017	J B	0.0060	0.0013	mg/L		11/04/24 14:50	11/06/24 16:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/04/24 14:50	11/06/24 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0065		0.0060	0.0013	mg/L		11/04/24 14:50	11/06/24 13:50	1
Thallium	0.0079		0.0020	0.00057	mg/L		11/04/24 14:50	11/06/24 13:50	1

Method: SW846 7470A - Mercury - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/07/24 11:45	11/08/24 10:46	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.018	0.0076	mg/Kg	☆	11/06/24 16:15	11/07/24 10:10	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	☆	11/07/24 09:39	11/07/24 12:15	1
pH (SW846 9045D)	8.7		0.2	0.2	SU			10/30/24 10:58	1

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-037A

Job ID: 500-259123-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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
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 - AE8-037A

Job ID: 500-259123-1

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
8260D	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

