



# Illinois Environmental Protection Agency

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 370 - Dixie Highway at 151st Street Office Phone Number, if available: \_\_\_\_\_

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

15040-15048 Dixie Highway (ISGS Site No. 3247-30)

City: Harvey State: IL Zip Code: 60426

County: Cook Township: \_\_\_\_\_

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

Latitude: 41.61544 Longitude: - 87.67274

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

Google Earth

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

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 22

### 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 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 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 OF 3247-30-B01 WAS SAMPLED AT SITE 3247-30. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORT - JOB ID: 500-169332-1

ALSO, SEE FIGURES 4-1 AND 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Fischer (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.

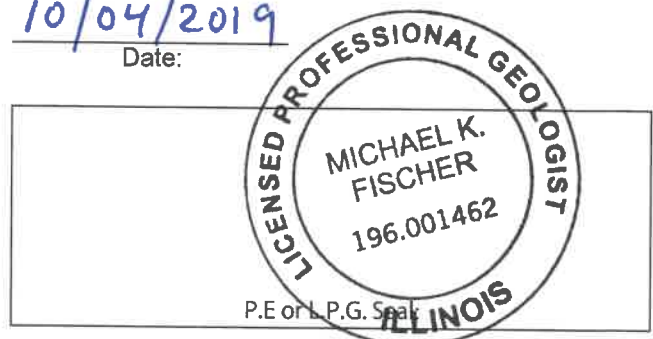
***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

Company Name: Environmental Design International inc.  
Street Address: 33 West Monroe Street, Suite 1825  
City: Chicago State: IL Zip Code: 60603  
Phone: 312-345-1400

Michael Fischer  
Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

10/04/2019  
Date:



**Summary Table of ISGS Site No. 3247-30**  
**Detected Soil Analytes and Comparison with Applicable Criteria**  
**Soil Analytical Results**  
**IDOT Contract No: PTB 174-009; Work Order 064A**  
**FAP 370 - Dixie Highway at 151st Street**  
**Harvey, Cook County, Illinois**

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives					ADL	Background		Maximum Allowed Concentration	Field Sample ID	3247-30-B01 (0-4)	3247-30-B01 (0-4) Dup	3247-30-B01 (4-8)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route								
		Ingestion	Inhalation	Ingestion	Inhalation	Class I								
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Chicago	MSAs	pH 6.25-9.0							
<b>Volatile Organic Analytical Parameters</b>														
Acetone	mg/kg	70,000	100000	---	100000	25	*	---	---	25		0.037	0.043	0.040
Trichloroethene	mg/kg	58	5	1,200	12	0.06	*	---	---	0.06		0.00092	ND	ND
<b>Semivolatile Organic Analytical Parameters</b>														
Benzo[a]anthracene	mg/kg	0.9	---	170	---	2	*	1.1	1.8	0.9		0.0074	0.0057	0.0077
Benzo[a]pyrene	mg/kg	0.09	---	17	---	8	*	1.3	2.1	0.09		0.0085	ND	0.0085
Benzo[b]fluoranthene	mg/kg	0.9	---	170	---	5	*	1.5	2.1	0.9		0.011	0.0097	0.012
Benzo[g,h,i]perylene	mg/kg	2,300	---	61,000	---	27,000	---	0.68	1.7	2,300		ND	0.019	ND
Chrysene	mg/kg	88	---	17,000	---	160	*	1.2	2.7	88		ND	0.015	0.011
Fluoranthene	mg/kg	3,100	---	82,000	---	4,300	*	2.7	4.1	3,100		0.0091	0.0094	0.0097
Pyrene	mg/kg	2,300	---	61,000	---	4,200	*	1.9	3	2,300		0.0093	0.018	0.010
<b>Inorganic Analytical Parameters</b>														
Arsenic	mg/kg	13	750	61	25,000	---	*	---	13	11.3		7.0	9.3	7.3
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	---	110	1,500		37	22	34
Beryllium	mg/kg	160	1,300	410	44,000	---	*	---	0.59	22		0.64	0.52	0.64
Cadmium	mg/kg	78	1,800	200	59,000	---	*	---	0.6	5.2		0.20	0.27	0.22
Calcium	mg/kg	---	---	---	---	---	*	---	9,300	---		2700	44000	3000
Chromium	mg/kg	230	270	4,100	690	---	*	---	16.2	21		16	14	16
Cobalt	mg/kg	4,700	---	12,000	---	---	*	---	8.9	20		8.8	11	8.8
Copper	mg/kg	2,900	---	8,200	---	---	*	---	19.6	2,900		19	20	19
Iron	mg/kg	---	---	---	---	---	---	---	15,900	15,000		19000	23000	19000
Lead	mg/kg	400	---	700	---	---	*	---	36	107		18	16	19
Magnesium	mg/kg	325,000	---	730,000	---	---	*	---	4,820	325,000		3100	23000	3600
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	---	636	630		96	260	97
Mercury	mg/kg	23	10	61	0.1	---	*	---	0.06	0.89		0.018	0.015	0.021
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	---	18	100		24	27	24
Potassium	mg/kg	---	---	---	---	---	---	---	1,268	---		2300	2600	2400
Silver	mg/kg	390	---	1,000	---	---	*	---	0.55	4.4		3.5	3.3	3.5
Sodium	mg/kg	---	---	---	---	---	*	---	130	---		110	200	110
Thallium	mg/kg	6	---	160	---	---	*	---	0.32	2.6		1.2	0.91	1.2
Vanadium	mg/kg	550	---	1,400	---	---	*	---	25.2	550		23	18	23
Zinc	mg/kg	23,000	---	61,000	---	---	*	---	95	5,100		78	99	84
pH										6.25 - 9.0		7.9	8.3	7.7

**Summary Table of ISGS Site No. 3247-30**  
**Detected Soil Analytes and Comparison with Applicable Criteria**  
**Soil Analytical Results**  
**IDOT Contract No: PTB 174-009; Work Order 064A**  
**FAP 370 - Dixie Highway at 151st Street**  
**Harvey, Cook County, Illinois**

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives					ADL	Background		Maximum Allowed Concentration	Field Sample ID	3247-30-B01 (0-4)	3247-30-B01 (0-4) Dup	3247-30-B01 (4-8)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route		Chicago	MSAs					
		Ingestion	Inhalation	Ingestion	Inhalation	Class I					CCDD	Sample Depth (feet)		
								Lab Sample ID	ISGS Site No.		Date Collected			
<b>Inorganic Analytical Parameters (TCLP)</b>														
Arsenic, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	ND	ND	ND	
Barium, TCLP	mg/L	---	---	---	---	2	---	---	---	---	0.12	0.16	0.11	
Beryllium, TCLP	mg/L	---	---	---	---	0.004	---	---	---	---	ND	ND	ND	
Cadmium, TCLP	mg/L	---	---	---	---	0.005	---	---	---	---	ND	ND	ND	
Calcium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	70	320	60	
Chromium, TCLP	mg/L	---	---	---	---	0.1	---	---	---	---	ND	ND	ND	
Cobalt, TCLP	mg/L	---	---	---	---	1	---	---	---	---	ND	ND	ND	
Copper, TCLP	mg/L	---	---	---	---	0.65	---	---	---	---	ND	ND	ND	
Iron, TCLP	mg/L	---	---	---	---	5	---	---	---	---	ND	ND	ND	
Lead, TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---	ND	ND	ND	
Magnesium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	21	160	16	
Manganese, TCLP	mg/L	---	---	---	---	0.15	---	---	---	---	0.036	0.88	0.035	
Mercury, TCLP	mg/L	---	---	---	---	0.002	---	---	---	---	ND	ND	ND	
Nickel, TCLP	mg/L	---	---	---	---	0.1	---	---	---	---	ND	ND	ND	
Potassium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	0.99	2.6	1.0	
Selenium, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	ND	ND	ND	
Silver, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	ND	ND	ND	
Thallium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	ND	ND	ND	
Vanadium, TCLP	mg/L	---	---	---	---	0.049	---	---	---	---	ND	ND	ND	
Zinc, TCLP	mg/L	---	---	---	---	5	---	---	---	---	ND	0.033	ND	
<b>Inorganic Analytical Parameters (SPLP)</b>														
Arsenic, SPLP	mg/L	---	---	---	---	0.05	---	---	---	---	0.056	0.066	0.044	
Barium, SPLP	mg/L	---	---	---	---	2	---	---	---	---	0.50	0.20	0.55	
Beryllium, SPLP	mg/L	---	---	---	---	0.004	---	---	---	---	0.0068	ND	0.0074	
Cadmium, SPLP	mg/L	---	---	---	---	0.005	---	---	---	---	0.0030	0.0027	0.0027	
Calcium, SPLP	mg/L	---	---	---	---	---	---	---	---	---	11	12	12	
Chromium, SPLP	mg/L	---	---	---	---	0.1	---	---	---	---	0.15	0.082	0.18	
Cobalt, SPLP	mg/L	---	---	---	---	1	---	---	---	---	0.035	0.044	0.032	
Copper, SPLP	mg/L	---	---	---	---	0.65	---	---	---	---	0.11	0.12	0.11	
Iron, SPLP	mg/L	---	---	---	---	5	---	---	---	---	170	160	160	
Lead, SPLP	mg/L	---	---	---	---	0.0075	---	---	---	---	0.19	0.11	0.21	
Magnesium, SPLP	mg/L	---	---	---	---	---	---	---	---	---	25	18	27	
Manganese, SPLP	mg/L	---	---	---	---	0.15	---	---	---	---	0.49	0.47	0.45	
Mercury, SPLP	mg/L	---	---	---	---	0.002	---	---	---	---	ND	ND	ND	
Nickel, SPLP	mg/L	---	---	---	---	0.1	---	---	---	---	0.13	0.12	0.13	
Potassium, SPLP	mg/L	---	---	---	---	---	---	---	---	---	57	23	62	
Selenium, SPLP	mg/L	---	---	---	---	0.05	---	---	---	---	ND	ND	ND	
Silver, SPLP	mg/L	---	---	---	---	0.05	---	---	---	---	0.011	0.010	0.014	
Thallium, SPLP	mg/L	---	---	---	---	0.002	---	---	---	---	0.0030	ND	0.0036	
Vanadium, SPLP	mg/L	---	---	---	---	0.049	---	---	---	---	0.27	0.11	0.30	
Zinc, SPLP	mg/L	---	---	---	---	5	---	---	---	---	0.38	0.42	0.41	

## Table Notes

Remediation Objectives from 35 Illinois Administrative Code Chapter 742: *Tiered Approach to Corrective Action Objectives* (TACO) and the most stringent Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil (MACs) outline in Title 35 Administrative Code of the Illinois Administrative Code Part 1100 (35 IAC 1100).

Remediation Objectives for Non-TACO compounds from Illinois Environmental Protection Agency's (IEPA's) web site (<http://www.epa.state.il.us/land/taco/chemicals-not-in-taco-tier-1-tables.html>).

mg/kg = milligrams per kilogram, generally equivalent to ppm

mg/L = milligrams per liter, generally equivalent to parts per million (ppm)

TCLP = Toxicity Characteristic Leaching Procedure

SPLP = Synthetic Precipitation Leaching Procedure

-- = Sample not analyzed for this constituent

--- = No IEPA Remediation Objective (RO) for this exposure route.


---- = Not measured


ND = Constituent not detected above the reporting limit.


*Italicized* Tier 1 ROs were changed to laboratory Acceptable Detection Limits (ADL) per 35 IAC 742.510(a)(8).


\* In pH-specific table, hexavalent chromium used as RO for total chromium to allow for a conservative comparison. Since no Class II pH-specific ROs exist for chromium, silver, and vanadium, conservative Class I ROs used for comparison.

\*\*Lab Data for 3 & 4 methylphenol compared to 4 methylphenol Ros.

 Yellow is above the most stringent MAC

 Blue is above MAC and City of Chicago but below the MSA

 Green is above MAC and MSA County

 Orange is above the lowest construction worker RO

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-169332-1  
Client Project/Site: IDOT - PTB 174-009 - WO 064

For:  
Environmental Design International, Inc.  
33 W. Monroe  
Suite 1825  
Chicago, Illinois 60603

Attn: Michael Fischer

*Jodie Bracken*

Authorized for release by:  
9/13/2019 3:43:33 PM  
Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)  
Designee for  
Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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

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

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

# Method Summary

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010B	Cyanide, Distillation	SW846	TAL CHI

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4)**

**Lab Sample ID: 500-169332-1**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.037</b>		0.024	0.010	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Benzene	<0.00061		0.0024	0.00061	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Bromodichloromethane	<0.00048		0.0024	0.00048	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Bromoform	<0.00070		0.0024	0.00070	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Bromomethane	<0.0022		0.0060	0.0022	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
2-Butanone (MEK)	<0.0026		0.0060	0.0026	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Carbon disulfide	<0.0012		0.0060	0.0012	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Carbon tetrachloride	<0.00069		0.0024	0.00069	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Chlorobenzene	<0.00088		0.0024	0.00088	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Chloroethane	<0.0018 *		0.0060	0.0018	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Chloroform	<0.00083		0.0024	0.00083	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Chloromethane	<0.0024		0.0060	0.0024	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
cis-1,2-Dichloroethene	<0.00067		0.0024	0.00067	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
cis-1,3-Dichloropropene	<0.00072		0.0024	0.00072	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Dibromochloromethane	<0.00078		0.0024	0.00078	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
1,1-Dichloroethane	<0.00082		0.0024	0.00082	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
1,2-Dichloroethane	<0.0019		0.0060	0.0019	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
1,1-Dichloroethene	<0.00082		0.0024	0.00082	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
1,2-Dichloropropane	<0.00062		0.0024	0.00062	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
1,3-Dichloropropane, Total	<0.00084		0.0024	0.00084	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Ethylbenzene	<0.0011		0.0024	0.0011	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
2-Hexanone	<0.0019		0.0060	0.0019	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
<b>Methylene Chloride</b>	<b>0.0043 J</b>		0.0060	0.0023	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
4-Methyl-2-pentanone (MIBK)	<0.0018		0.0060	0.0018	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Methyl tert-butyl ether	<0.00070		0.0024	0.00070	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Styrene	<0.00072		0.0024	0.00072	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
1,1,2,2-Tetrachloroethane	<0.00076		0.0024	0.00076	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Tetrachloroethene	<0.00081		0.0024	0.00081	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Toluene	<0.00060		0.0024	0.00060	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
trans-1,2-Dichloroethene	<0.0011		0.0024	0.0011	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
trans-1,3-Dichloropropene	<0.00084		0.0024	0.00084	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
1,1,1-Trichloroethane	<0.00080		0.0024	0.00080	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
1,1,2-Trichloroethane	<0.0010		0.0024	0.0010	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
<b>Trichloroethene</b>	<b>0.00092 J</b>		0.0024	0.00080	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Vinyl acetate	<0.0021		0.0060	0.0021	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Vinyl chloride	<0.0011		0.0024	0.0011	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1
Xylenes, Total	<0.00076		0.0048	0.00076	mg/Kg	☼	08/30/19 17:35	09/09/19 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	08/30/19 17:35	09/09/19 18:34	1
Dibromofluoromethane	96		75 - 126	08/30/19 17:35	09/09/19 18:34	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/30/19 17:35	09/09/19 18:34	1
Toluene-d8 (Surr)	97		75 - 124	08/30/19 17:35	09/09/19 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
<b>Benzo[a]anthracene</b>	<b>0.0074 J</b>		0.037	0.0051	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1

Eurofins TestAmerica, Chicago



# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4)**

**Lab Sample ID: 500-169332-1**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.0085</b>	<b>J</b>	0.037	0.0073	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.037	0.0081	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Dibenz(a,h)anthracene	<0.0073		0.037	0.0073	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
<b>Fluoranthene</b>	<b>0.0091</b>	<b>J</b>	0.037	0.0070	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4)**

**Lab Sample ID: 500-169332-1**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Phenanthrene	<0.0052		0.037	0.0052	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
<b>Pyrene</b>	<b>0.0093</b>	<b>J</b>	0.037	0.0075	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	09/12/19 07:42	09/13/19 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145	09/12/19 07:42	09/13/19 02:31	1
2-Fluorophenol	77		31 - 166	09/12/19 07:42	09/13/19 02:31	1
Nitrobenzene-d5	67		37 - 147	09/12/19 07:42	09/13/19 02:31	1
Phenol-d5	70		30 - 153	09/12/19 07:42	09/13/19 02:31	1
Terphenyl-d14	92		42 - 157	09/12/19 07:42	09/13/19 02:31	1
2,4,6-Tribromophenol	82		31 - 143	09/12/19 07:42	09/13/19 02:31	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.20		1.0	0.20	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Arsenic</b>	<b>7.0</b>		0.52	0.18	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Barium</b>	<b>37</b>		0.52	0.059	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Beryllium</b>	<b>0.64</b>		0.21	0.048	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Cadmium</b>	<b>0.20</b>	<b>B</b>	0.10	0.019	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Chromium</b>	<b>16</b>		0.52	0.26	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Cobalt</b>	<b>8.8</b>		0.26	0.068	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Copper</b>	<b>19</b>	<b>B</b>	0.52	0.15	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Iron</b>	<b>19000</b>		10	5.4	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Lead</b>	<b>18</b>		0.26	0.12	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Magnesium</b>	<b>3100</b>		5.2	2.6	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Calcium</b>	<b>2700</b>	<b>B</b>	10	1.8	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Manganese</b>	<b>96</b>		0.52	0.075	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Nickel</b>	<b>24</b>		0.52	0.15	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
Selenium	<0.30		0.52	0.30	mg/Kg	☼	09/05/19 08:43	09/06/19 14:50	1
<b>Silver</b>	<b>3.5</b>		0.26	0.067	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Thallium</b>	<b>1.2</b>		0.52	0.26	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Vanadium</b>	<b>23</b>		0.26	0.061	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Zinc</b>	<b>78</b>		1.0	0.45	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Potassium</b>	<b>2300</b>		26	9.2	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1
<b>Sodium</b>	<b>110</b>		52	7.7	mg/Kg	☼	09/05/19 08:43	09/05/19 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		09/12/19 07:48	09/12/19 18:29	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		09/12/19 07:48	09/12/19 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/12/19 07:48	09/12/19 18:29	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		09/12/19 07:48	09/12/19 18:29	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4)**

**Lab Sample ID: 500-169332-1**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>70</b>		5.0	0.50	mg/L		09/12/19 07:48	09/12/19 18:29	1
Chromium	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:29	1
Cobalt	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:29	1
Copper	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:29	1
Iron	<0.20		0.40	0.20	mg/L		09/12/19 07:48	09/12/19 18:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/12/19 07:48	09/12/19 18:29	1
<b>Magnesium</b>	<b>21</b>		2.5	0.50	mg/L		09/12/19 07:48	09/12/19 18:29	1
<b>Manganese</b>	<b>0.036</b>		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:29	1
Nickel	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:29	1
<b>Potassium</b>	<b>0.99</b>	<b>J</b>	2.5	0.50	mg/L		09/12/19 07:48	09/13/19 10:12	1
Selenium	<0.020		0.050	0.020	mg/L		09/12/19 07:48	09/12/19 18:29	1
Silver	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:29	1
Vanadium	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:29	1
Zinc	<0.020	<b>^</b>	0.50	0.020	mg/L		09/12/19 07:48	09/12/19 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.056</b>		0.050	0.010	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Beryllium</b>	<b>0.0068</b>		0.0040	0.0040	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Cadmium</b>	<b>0.0030</b>	<b>J</b>	0.0050	0.0020	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Calcium</b>	<b>11</b>		5.0	0.50	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Cobalt</b>	<b>0.035</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Iron</b>	<b>170</b>		0.40	0.20	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Lead</b>	<b>0.19</b>		0.0075	0.0075	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Magnesium</b>	<b>25</b>		2.5	0.50	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Manganese</b>	<b>0.49</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Potassium</b>	<b>57</b>		2.5	0.50	mg/L		09/12/19 07:42	09/12/19 15:54	1
Selenium	<0.020		0.050	0.020	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Silver</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:54	1
<b>Zinc</b>	<b>0.38</b>	<b>J</b>	0.50	0.020	mg/L		09/12/19 07:42	09/12/19 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/12/19 07:48	09/12/19 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/12/19 07:48	09/12/19 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/12/19 07:42	09/12/19 19:18	1
<b>Thallium</b>	<b>0.0030</b>		0.0020	0.0020	mg/L		09/12/19 07:42	09/12/19 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/19 15:00	09/12/19 11:20	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4)**

**Lab Sample ID: 500-169332-1**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 87.8

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/19 15:00	09/12/19 10:19	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0060	mg/Kg	☼	09/06/19 11:00	09/09/19 14:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.45	0.23	mg/Kg	☼	09/10/19 10:15	09/10/19 15:26	1
pH	7.9		0.2	0.2	SU			09/06/19 15:12	1

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4) Dup**

**Lab Sample ID: 500-169332-2**

**Date Collected: 08/30/19 09:25**

**Matrix: Solid**

**Date Received: 08/30/19 10:55**

**Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.043</b>		0.019	0.0083	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Carbon disulfide	<0.00099		0.0048	0.00099	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Chlorobenzene	<0.00070		0.0019	0.00070	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Chloroethane	<0.0014 *		0.0048	0.0014	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
1,3-Dichloropropane, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
<b>Methylene Chloride</b>	<b>0.0020 J</b>		0.0048	0.0019	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Vinyl chloride	<0.00084		0.0019	0.00084	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	08/30/19 17:35	09/09/19 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	08/30/19 17:35	09/09/19 19:00	1
Dibromofluoromethane	96		75 - 126	08/30/19 17:35	09/09/19 19:00	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/30/19 17:35	09/09/19 19:00	1
Toluene-d8 (Surr)	95		75 - 124	08/30/19 17:35	09/09/19 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
<b>Benzo[a]anthracene</b>	<b>0.0057 J</b>		0.038	0.0052	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4) Dup**

**Lab Sample ID: 500-169332-2**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0074		0.038	0.0074	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
<b>Benzo[b]fluoranthene</b>	<b>0.0097</b>	<b>J</b>	0.038	0.0083	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
<b>Benzo[g,h,i]perylene</b>	<b>0.019</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
<b>Chrysene</b>	<b>0.015</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
<b>Fluoranthene</b>	<b>0.0094</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4) Dup**

**Lab Sample ID: 500-169332-2**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
<b>Phenanthrene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
<b>Pyrene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	09/12/19 07:42	09/13/19 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		43 - 145				09/12/19 07:42	09/13/19 02:59	1
2-Fluorophenol	67		31 - 166				09/12/19 07:42	09/13/19 02:59	1
Nitrobenzene-d5	58		37 - 147				09/12/19 07:42	09/13/19 02:59	1
Phenol-d5	60		30 - 153				09/12/19 07:42	09/13/19 02:59	1
Terphenyl-d14	81		42 - 157				09/12/19 07:42	09/13/19 02:59	1
2,4,6-Tribromophenol	70		31 - 143				09/12/19 07:42	09/13/19 02:59	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Arsenic</b>	<b>9.3</b>		0.55	0.19	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Barium</b>	<b>22</b>		0.55	0.063	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Beryllium</b>	<b>0.52</b>		0.22	0.052	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.11	0.020	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Chromium</b>	<b>14</b>		0.55	0.27	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Cobalt</b>	<b>11</b>		0.28	0.073	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Copper</b>	<b>20</b>	<b>B</b>	0.55	0.16	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Iron</b>	<b>23000</b>		11	5.8	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Lead</b>	<b>16</b>		0.28	0.13	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Magnesium</b>	<b>23000</b>		5.5	2.8	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Calcium</b>	<b>44000</b>	<b>B</b>	55	9.4	mg/Kg	☼	09/05/19 08:43	09/06/19 14:58	5
<b>Manganese</b>	<b>260</b>		0.55	0.080	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Nickel</b>	<b>27</b>		0.55	0.16	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
Selenium	<0.33		0.55	0.33	mg/Kg	☼	09/05/19 08:43	09/06/19 14:54	1
<b>Silver</b>	<b>3.3</b>		0.28	0.072	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Thallium</b>	<b>0.91</b>		0.55	0.28	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Vanadium</b>	<b>18</b>		0.28	0.065	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Zinc</b>	<b>99</b>		1.1	0.49	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Potassium</b>	<b>2600</b>		28	9.8	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1
<b>Sodium</b>	<b>200</b>		55	8.2	mg/Kg	☼	09/05/19 08:43	09/05/19 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		09/12/19 07:48	09/12/19 18:37	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		09/12/19 07:48	09/12/19 18:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/12/19 07:48	09/12/19 18:37	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		09/12/19 07:48	09/12/19 18:37	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4) Dup**

**Lab Sample ID: 500-169332-2**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>320</b>		5.0	0.50	mg/L		09/12/19 07:48	09/12/19 18:37	1
Chromium	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:37	1
Cobalt	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:37	1
Copper	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:37	1
Iron	<0.20		0.40	0.20	mg/L		09/12/19 07:48	09/12/19 18:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/12/19 07:48	09/12/19 18:37	1
<b>Magnesium</b>	<b>160</b>		2.5	0.50	mg/L		09/12/19 07:48	09/12/19 18:37	1
<b>Manganese</b>	<b>0.88</b>		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:37	1
Nickel	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:37	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/12/19 07:48	09/13/19 10:20	1
Selenium	<0.020		0.050	0.020	mg/L		09/12/19 07:48	09/12/19 18:37	1
Silver	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:37	1
Vanadium	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:37	1
<b>Zinc</b>	<b>0.033</b>	<b>J B ^</b>	0.50	0.020	mg/L		09/12/19 07:48	09/12/19 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.066</b>		0.050	0.010	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		09/12/19 07:42	09/12/19 15:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Calcium</b>	<b>12</b>		5.0	0.50	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Chromium</b>	<b>0.082</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Cobalt</b>	<b>0.044</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Iron</b>	<b>160</b>		0.40	0.20	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Manganese</b>	<b>0.47</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Potassium</b>	<b>23</b>		2.5	0.50	mg/L		09/12/19 07:42	09/12/19 15:58	1
Selenium	<0.020		0.050	0.020	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Silver</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Vanadium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 15:58	1
<b>Zinc</b>	<b>0.42</b>	<b>J</b>	0.50	0.020	mg/L		09/12/19 07:42	09/12/19 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/12/19 07:48	09/12/19 17:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/12/19 07:48	09/12/19 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/12/19 07:42	09/12/19 19:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/12/19 07:42	09/12/19 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/19 15:00	09/12/19 11:25	1

Eurofins TestAmerica, Chicago



# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (0-4) Dup**

**Lab Sample ID: 500-169332-2**

Date Collected: 08/30/19 09:25

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 84.4

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/19 15:00	09/12/19 10:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.019	0.0065	mg/Kg	☼	09/06/19 11:00	09/09/19 14:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.55	0.27	mg/Kg	☼	09/10/19 10:15	09/10/19 15:26	1
pH	8.3		0.2	0.2	SU			09/06/19 15:14	1

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (4-8)**

**Lab Sample ID: 500-169332-3**

Date Collected: 08/30/19 09:35

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.040</b>		0.018	0.0080	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Chloroethane	<0.0014 *		0.0046	0.0014	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
<b>Methylene Chloride</b>	<b>0.0029 J</b>		0.0046	0.0018	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	08/30/19 17:35	09/09/19 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	08/30/19 17:35	09/09/19 19:26	1
Dibromofluoromethane	95		75 - 126	08/30/19 17:35	09/09/19 19:26	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/30/19 17:35	09/09/19 19:26	1
Toluene-d8 (Surr)	97		75 - 124	08/30/19 17:35	09/09/19 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
<b>Benzo[a]anthracene</b>	<b>0.0077 J</b>		0.037	0.0050	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (4-8)**

**Lab Sample ID: 500-169332-3**

Date Collected: 08/30/19 09:35

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0085	J	0.037	0.0072	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Benzo[b]fluoranthene	0.012	J	0.037	0.0081	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
4-Chloroaniline	<0.18		0.75	0.18	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Chrysene	0.011	J	0.037	0.010	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2,4-Dinitrophenol	<0.66		0.75	0.66	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Fluoranthene	0.0097	J	0.037	0.0069	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Hexachlorobenzene	<0.0087		0.075	0.0087	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Hexachlorocyclopentadiene	<0.22		0.75	0.22	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2-Methylnaphthalene	<0.0069		0.075	0.0069	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Nitrobenzene	<0.0093		0.037	0.0093	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (4-8)**

**Lab Sample ID: 500-169332-3**

Date Collected: 08/30/19 09:35

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.75	0.36	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
N-Nitrosodi-n-propylamine	<0.046		0.075	0.046	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Pentachlorophenol	<0.60		0.75	0.60	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Phenanthrene	<0.0052		0.037	0.0052	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
<b>Pyrene</b>	<b>0.010</b>	<b>J</b>	0.037	0.0074	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	09/12/19 07:42	09/13/19 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		43 - 145	09/12/19 07:42	09/13/19 03:28	1
2-Fluorophenol	75		31 - 166	09/12/19 07:42	09/13/19 03:28	1
Nitrobenzene-d5	59		37 - 147	09/12/19 07:42	09/13/19 03:28	1
Phenol-d5	67		30 - 153	09/12/19 07:42	09/13/19 03:28	1
Terphenyl-d14	89		42 - 157	09/12/19 07:42	09/13/19 03:28	1
2,4,6-Tribromophenol	84		31 - 143	09/12/19 07:42	09/13/19 03:28	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Arsenic</b>	<b>7.3</b>		0.56	0.19	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Barium</b>	<b>34</b>		0.56	0.064	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Beryllium</b>	<b>0.64</b>		0.22	0.052	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Cadmium</b>	<b>0.22</b>	<b>B</b>	0.11	0.020	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Chromium</b>	<b>16</b>		0.56	0.28	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Cobalt</b>	<b>8.8</b>		0.28	0.073	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Copper</b>	<b>19</b>	<b>B</b>	0.56	0.16	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Iron</b>	<b>19000</b>		11	5.8	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Lead</b>	<b>19</b>		0.28	0.13	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Magnesium</b>	<b>3600</b>		5.6	2.8	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Calcium</b>	<b>3000</b>	<b>B</b>	11	1.9	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Manganese</b>	<b>97</b>		0.56	0.081	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Nickel</b>	<b>24</b>		0.56	0.16	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	09/05/19 08:43	09/06/19 15:01	1
<b>Silver</b>	<b>3.5</b>		0.28	0.072	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Thallium</b>	<b>1.2</b>		0.56	0.28	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Vanadium</b>	<b>23</b>		0.28	0.066	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Zinc</b>	<b>84</b>		1.1	0.49	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Potassium</b>	<b>2400</b>		28	9.9	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1
<b>Sodium</b>	<b>110</b>		56	8.3	mg/Kg	☼	09/05/19 08:43	09/05/19 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		09/12/19 07:48	09/12/19 18:41	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		09/12/19 07:48	09/12/19 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/12/19 07:48	09/12/19 18:41	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		09/12/19 07:48	09/12/19 18:41	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (4-8)**

**Lab Sample ID: 500-169332-3**

Date Collected: 08/30/19 09:35

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>60</b>		5.0	0.50	mg/L		09/12/19 07:48	09/12/19 18:41	1
Chromium	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:41	1
Cobalt	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:41	1
Copper	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:41	1
Iron	<0.20		0.40	0.20	mg/L		09/12/19 07:48	09/12/19 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/12/19 07:48	09/12/19 18:41	1
<b>Magnesium</b>	<b>16</b>	<b>F1</b>	2.5	0.50	mg/L		09/12/19 07:48	09/12/19 18:41	1
<b>Manganese</b>	<b>0.035</b>	<b>F1</b>	0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:41	1
Nickel	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:41	1
<b>Potassium</b>	<b>1.0</b>	<b>J F1</b>	2.5	0.50	mg/L		09/12/19 07:48	09/13/19 10:24	1
Selenium	<0.020	F1	0.050	0.020	mg/L		09/12/19 07:48	09/12/19 18:41	1
Silver	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:41	1
Vanadium	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:41	1
Zinc	<0.020	^	0.50	0.020	mg/L		09/12/19 07:48	09/12/19 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.044</b>	<b>J</b>	0.050	0.010	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Beryllium</b>	<b>0.0074</b>		0.0040	0.0040	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Calcium</b>	<b>12</b>		5.0	0.50	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Iron</b>	<b>160</b>		0.40	0.20	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Lead</b>	<b>0.21</b>		0.0075	0.0075	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Magnesium</b>	<b>27</b>		2.5	0.50	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Manganese</b>	<b>0.45</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Potassium</b>	<b>62</b>		2.5	0.50	mg/L		09/12/19 07:42	09/12/19 16:02	1
Selenium	<0.020		0.050	0.020	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Silver</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Vanadium</b>	<b>0.30</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:02	1
<b>Zinc</b>	<b>0.41</b>	<b>J</b>	0.50	0.020	mg/L		09/12/19 07:42	09/12/19 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/12/19 07:48	09/12/19 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/12/19 07:48	09/12/19 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/12/19 07:42	09/12/19 19:26	1
<b>Thallium</b>	<b>0.0036</b>		0.0020	0.0020	mg/L		09/12/19 07:42	09/12/19 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/19 15:00	09/12/19 11:27	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

**Client Sample ID: 3247-30-B01 (4-8)**

**Lab Sample ID: 500-169332-3**

Date Collected: 08/30/19 09:35

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 88.3

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/11/19 15:00	09/12/19 10:26	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0057	mg/Kg	☼	09/06/19 11:00	09/09/19 14:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.49	0.24	mg/Kg	☼	09/10/19 10:15	09/10/19 15:27	1
pH	7.7		0.2	0.2	SU			09/06/19 15:18	1

# Accreditation/Certification Summary

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169332-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

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
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60  
Phone: 708.534.5200 Fax: 708.534



500-169332 COC

Report To (optional) Mike Fischer Bill To (optional) \_\_\_\_\_  
 Contact: Mike Fischer Contact: \_\_\_\_\_  
 Company: EOI Company: \_\_\_\_\_  
 Address: 33 W. Monroe Address: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone: 312-345-1400 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: mfisher@envdotjmi.com PO/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-169332  
 Chain of Custody Number: \_\_\_\_\_  
 Page 1 of 1  
 Temperature °C of Cooler: 3.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>EOI</u>		<u>2031-001-03</u>									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>DOT PTB 174-009-WO 64</u>											
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Harvey, IL</u>											
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>Mike Fischer</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix
<u>1</u>		<u>3247-30-B01 (0-4)</u>	<u>8/30/19</u>	<u>0925</u>	<u>5</u>	<u>5</u>	<u>VOCS</u>	<u>SVOCs</u>	<u>TAL</u>	<u>INORG.</u>	<u>TCLP/SLP</u>
<u>2</u>		<u>1-B01 (0-4) DUP</u>	<u>1</u>	<u>0925</u>	<u>1</u>	<u>1</u>	<u>VOCS</u>	<u>SVOCs</u>	<u>TAL</u>	<u>INORG.</u>	<u>TCLP/SLP</u>
<u>3</u>		<u>1-B01 (4-8)</u>	<u>1</u>	<u>0935</u>	<u>1</u>	<u>1</u>	<u>VOCS</u>	<u>SVOCs</u>	<u>TAL</u>	<u>INORG.</u>	<u>TCLP/SLP</u>

- Preservative Key
1. HCL, Cool to 4°
  2. H2SO4, Cool to 4°
  3. HNO3, Cool to 4°
  4. NaOH, Cool to 4°
  5. NaOH/Zn, Cool to 4°
  6. NaHSO4
  7. Cool to 4°
  8. None
  9. Other

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>MJ</u>	Company <u>EOI</u>	Date <u>8/30/19</u>	Time <u>1055</u>	Received By <u>R. L. Lopez</u>	Company <u>EA</u>	Date <u>8/30/19</u>	Time <u>1055</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier \_\_\_\_\_  
 Shipped \_\_\_\_\_  
 Hand Delivered

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments

Lab Comments:



# Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-169332-1

**Login Number: 169332**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# Illinois Environmental Protection Agency

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 370 - Dixie Highway at 151st Street Office Phone Number, if available: \_\_\_\_\_

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

15100 Dixie Highway (ISGS Site No. 3247-31)

City: Harvey State: IL Zip Code: 60426

County: Cook Township: \_\_\_\_\_

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

Latitude: 41.61528 Longitude: - 87.67271

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

Google Earth

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

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 34

### 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 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 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 OF 3247-31-B01 WAS SAMPLED AT SITE 3247-31. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORT - JOB ID: 500-169333-1

ALSO, SEE FIGURES 4-1 AND 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Fischer (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: Environmental Design International inc.  
Street Address: 33 West Monroe Street, Suite 1825  
City: Chicago State: IL Zip Code: 60603  
Phone: 312-345-1400

Michael Fischer  
Printed Name: \_\_\_\_\_

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

10/04/2019  
Date:



**Summary Table of ISGS Site No. 3247-31**  
**Detected Soil Analytes and Comparison with Applicable Criteria**  
**Soil Analytical Results**  
**IDOT Contract No: PTB 174-009; Work Order 064A**  
**FAP 370 - Dixie Highway at 151st Street**  
**Harvey, Cook County, Illinois**

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives					ADL	Background		Maximum Allowed Concentration	Field Sample ID	
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route					Sample Depth (feet)	3247-31-B01 (0-5)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	CCDD	Lab Sample ID	
										mg/kg	ISGS Site No.	
								pH 6.25-9.0	Date Collected	8/30/2019		
<b>Volatile Organic Analytical Parameters</b>												
Acetone	mg/kg	70,000	100000	---	100000	25	*	---	---	25		0.041
<b>Semivolatile Organic Analytical Parameters</b>												
Acenaphthene	mg/kg	4,700	---	120,000	---	570	*	0.09	0.13	570		0.0081
Acenaphthylene	mg/kg	2,300	---	61,000	---	85	---	0.03	0.07	85		0.0064
Anthracene	mg/kg	23,000	---	610,000	---	12,000	*	0.25	0.4	12,000		0.013
Benzo[a]anthracene	mg/kg	0.9	---	170	---	2	*	1.1	1.8	0.9		0.082
Benzo[a]pyrene	mg/kg	0.09	---	17	---	8	*	1.3	2.1	0.09		0.13
Benzo[b]fluoranthene	mg/kg	0.9	---	170	---	5	*	1.5	2.1	0.9		0.15
Benzo[g,h,i]perylene	mg/kg	2,300	---	61,000	---	27,000	---	0.68	1.7	2,300		0.072
Benzo[k]fluoranthene	mg/kg	9	---	1,700	---	49	*	0.99	1.7	9		0.065
Chrysene	mg/kg	88	---	17,000	---	160	*	1.2	2.7	88		0.11
Dibenz[a,h]anthracene	mg/kg	0.09	---	17	---	2	*	0.2	0.42	0.09		0.018
Fluoranthene	mg/kg	3,100	---	82,000	---	4,300	*	2.7	4.1	3,100		0.13
Indeno[1,2,3-cd]pyrene	mg/kg	0.9	---	170	---	14	*	0.86	1.6	0.9		0.070
Phenanthrene	mg/kg	2,300	---	61,000	---	200	---	1.3	2.5	210		0.062
Pyrene	mg/kg	2,300	---	61,000	---	4,200	*	1.9	3	2,300		0.12
<b>Inorganic Analytical Parameters</b>												
Arsenic	mg/kg	13	750	61	25,000	---	*	---	13	11.3		8.7
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	---	110	1,500		44
Beryllium	mg/kg	160	1,300	410	44,000	---	*	---	0.59	22		0.66
Cadmium	mg/kg	78	1,800	200	59,000	---	*	---	0.6	5.2		0.46
Calcium	mg/kg	---	---	---	---	---	*	---	9,300	---		12000
Chromium	mg/kg	230	270	4,100	690	---	*	---	16.2	21		15
Cobalt	mg/kg	4,700	---	12,000	---	---	*	---	8.9	20		8.9
Copper	mg/kg	2,900	---	8,200	---	---	*	---	19.6	2,900		19
Iron	mg/kg	---	---	---	---	---	---	---	15,900	15,000		20000
Lead	mg/kg	400	---	700	---	---	*	---	36	107		49
Magnesium	mg/kg	325,000	---	730,000	---	---	*	---	4,820	325,000		8400
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	---	636	630		120
Mercury	mg/kg	23	10	61	0.1	---	*	---	0.06	0.89		0.0090
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	---	18	100		24
Potassium	mg/kg	---	---	---	---	---	---	---	1,268	---		2100
Selenium	mg/kg	390	---	1,000	---	---	*	---	0.48	1.3		0.34
Silver	mg/kg	390	---	1,000	---	---	*	---	0.55	4.4		3.0
Sodium	mg/kg	---	---	---	---	---	*	---	130	---		160
Thallium	mg/kg	6	---	160	---	---	*	---	0.32	2.6		1.2
Vanadium	mg/kg	550	---	1,400	---	---	*	---	25.2	550		20
Zinc	mg/kg	23,000	---	61,000	---	---	*	---	95	5,100		110
pH										6.25 - 9.0		7.7

**Summary Table of ISGS Site No. 3247-31**  
**Detected Soil Analytes and Comparison with Applicable Criteria**  
**Soil Analytical Results**  
**IDOT Contract No: PTB 174-009; Work Order 064A**  
**FAP 370 - Dixie Highway at 151st Street**  
**Harvey, Cook County, Illinois**

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives					ADL	Background		Maximum Allowed Concentration	Field Sample ID		3247-31-B01 (0-5)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route		Chicago	MSAs		Sample Depth (feet)	Lab Sample ID	
		Ingestion	Inhalation	Ingestion	Inhalation								
										pH 6.25-9.0	Date Collected		
<b>Inorganic Analytical Parameters (TCLP)</b>													
Antimony, TCLP	mg/L	---	---	---	---	0.006	---	---	---	---		ND	
Arsenic, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND	
Barium, TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.23	
Beryllium, TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		ND	
Cadmium, TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		0.0028	
Calcium, TCLP	mg/L	---	---	---	---	---	---	---	---	---		200	
Chromium, TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		ND	
Cobalt, TCLP	mg/L	---	---	---	---	1	---	---	---	---		ND	
Copper, TCLP	mg/L	---	---	---	---	0.65	---	---	---	---		ND	
Iron, TCLP	mg/L	---	---	---	---	5	---	---	---	---		ND	
Lead, TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---		ND	
Magnesium, TCLP	mg/L	---	---	---	---	---	---	---	---	---		58	
Manganese, TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.24	
Mercury, TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		0.00030	
Nickel, TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		ND	
Potassium, TCLP	mg/L	---	---	---	---	---	---	---	---	---		1.5	
Selenium, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND	
Silver, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND	
Thallium, TCLP	mg/L	---	---	---	---	---	---	---	---	---		ND	
Vanadium, TCLP	mg/L	---	---	---	---	0.049	---	---	---	---		ND	
Zinc, TCLP	mg/L	---	---	---	---	5	---	---	---	---		0.045	
<b>Inorganic Analytical Parameters (SPLP)</b>													
Antimony, SPLP	mg/L	---	---	---	---	0.006	---	---	---	---		ND	
Arsenic, SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		0.084	
Barium, SPLP	mg/L	---	---	---	---	2	---	---	---	---		0.48	
Beryllium, SPLP	mg/L	---	---	---	---	0.004	---	---	---	---		0.0069	
Cadmium, SPLP	mg/L	---	---	---	---	0.005	---	---	---	---		0.0035	
Calcium, SPLP	mg/L	---	---	---	---	---	---	---	---	---		16	
Chromium, SPLP	mg/L	---	---	---	---	0.1	---	---	---	---		0.16	
Cobalt, SPLP	mg/L	---	---	---	---	1	---	---	---	---		0.043	
Copper, SPLP	mg/L	---	---	---	---	0.65	---	---	---	---		0.090	
Iron, SPLP	mg/L	---	---	---	---	5	---	---	---	---		210	
Lead, SPLP	mg/L	---	---	---	---	0.0075	---	---	---	---		0.21	
Magnesium, SPLP	mg/L	---	---	---	---	---	---	---	---	---		25	
Manganese, SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.40	
Mercury, SPLP	mg/L	---	---	---	---	0.002	---	---	---	---		0.00022	
Nickel, SPLP	mg/L	---	---	---	---	0.1	---	---	---	---		0.13	
Potassium, SPLP	mg/L	---	---	---	---	---	---	---	---	---		53	
Selenium, SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		ND	
Silver, SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		0.012	
Thallium, SPLP	mg/L	---	---	---	---	0.002	---	---	---	---		0.0031	
Vanadium, SPLP	mg/L	---	---	---	---	0.049	---	---	---	---		0.28	
Zinc, SPLP	mg/L	---	---	---	---	5	---	---	---	---		0.51	

## Table Notes

Remediation Objectives from 35 Illinois Administrative Code Chapter 742: *Tiered Approach to Corrective Action Objectives* (TACO) and the most stringent Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil (MACs) outline in Title 35 Administrative Code of the Illinois Administrative Code Part 1100 (35 IAC 1100).

Remediation Objectives for Non-TACO compounds from Illinois Environmental Protection Agency's (IEPA's) web site (<http://www.epa.state.il.us/land/taco/chemicals-not-in-taco-tier-1-tables.html>).

mg/kg = milligrams per kilogram, generally equivalent to ppm

mg/L = milligrams per liter, generally equivalent to parts per million (ppm)

TCLP = Toxicity Characteristic Leaching Procedure

SPLP = Synthetic Precipitation Leaching Procedure

-- = Sample not analyzed for this constituent

--- = No IEPA Remediation Objective (RO) for this exposure route.


---- = Not measured


ND = Constituent not detected above the reporting limit.


*Italicized* Tier 1 ROs were changed to laboratory Acceptable Detection Limits (ADL) per 35 IAC 742.510(a)(8).


\* In pH-specific table, hexavalent chromium used as RO for total chromium to allow for a conservative comparison. Since no Class II pH-specific ROs exist for chromium, silver, and vanadium, conservative Class I ROs used for comparison.

\*\*Lab Data for 3 & 4 methylphenol compared to 4 methylphenol Ros.

 Yellow is above the most stringent MAC

 Blue is above MAC and City of Chicago but below the MSA

 Green is above MAC and MSA County

 Orange is above the lowest construction worker RO

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-169333-1

Client Project/Site: IDOT - PTB 174-009 - WO 064

**For:**

Environmental Design International, Inc.  
33 W. Monroe  
Suite 1825  
Chicago, Illinois 60603

Attn: Michael Fischer

*Jodie Bracken*

Authorized for release by:  
9/13/2019 3:45:04 PM

Jodie Bracken, Project Management Assistant II  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

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

### LINKS

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[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Method Summary

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169333-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010B	Cyanide, Distillation	SW846	TAL CHI

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169333-1

**Client Sample ID: 3247-31-B01 (0-5)**

**Lab Sample ID: 500-169333-1**

**Date Collected: 08/30/19 09:10**

**Matrix: Solid**

**Date Received: 08/30/19 10:55**

**Percent Solids: 86.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.041</b>		0.019	0.0083	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Chloroethane	<0.0014		0.0048	0.0014	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
1,3-Dichloropropane, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Ethylbenzene	<0.00092		0.0019	0.00092	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
<b>Methylene Chloride</b>	<b>0.0024 J</b>		0.0048	0.0019	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	08/30/19 17:35	09/06/19 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	08/30/19 17:35	09/06/19 00:45	1
Dibromofluoromethane	83		75 - 126	08/30/19 17:35	09/06/19 00:45	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/30/19 17:35	09/06/19 00:45	1
Toluene-d8 (Surr)	85		75 - 124	08/30/19 17:35	09/06/19 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.0081 J</b>		0.037	0.0068	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Acenaphthylene</b>	<b>0.0064 J</b>		0.037	0.0050	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Anthracene</b>	<b>0.013 J</b>		0.037	0.0063	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Benzo[a]anthracene</b>	<b>0.082</b>		0.037	0.0051	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169333-1

**Client Sample ID: 3247-31-B01 (0-5)**

**Lab Sample ID: 500-169333-1**

Date Collected: 08/30/19 09:10

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.13</b>		0.037	0.0073	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Benzo[b]fluoranthene</b>	<b>0.15</b>		0.037	0.0081	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Benzo[g,h,i]perylene</b>	<b>0.072</b>		0.037	0.012	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Benzo[k]fluoranthene</b>	<b>0.065</b>		0.037	0.011	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Chrysene</b>	<b>0.11</b>		0.037	0.010	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Dibenz(a,h)anthracene</b>	<b>0.018 J</b>		0.037	0.0073	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Fluoranthene</b>	<b>0.13</b>		0.037	0.0070	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.070</b>		0.037	0.0098	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169333-1

**Client Sample ID: 3247-31-B01 (0-5)**

**Lab Sample ID: 500-169333-1**

Date Collected: 08/30/19 09:10

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Phenanthrene</b>	<b>0.062</b>		0.037	0.0052	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
<b>Pyrene</b>	<b>0.12</b>		0.037	0.0075	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	09/09/19 18:56	09/10/19 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145	09/09/19 18:56	09/10/19 21:13	1
2-Fluorophenol	80		31 - 166	09/09/19 18:56	09/10/19 21:13	1
Nitrobenzene-d5	68		37 - 147	09/09/19 18:56	09/10/19 21:13	1
Phenol-d5	73		30 - 153	09/09/19 18:56	09/10/19 21:13	1
Terphenyl-d14	104		42 - 157	09/09/19 18:56	09/10/19 21:13	1
2,4,6-Tribromophenol	90		31 - 143	09/09/19 18:56	09/10/19 21:13	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Arsenic</b>	<b>8.7</b>		0.55	0.19	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Barium</b>	<b>44</b>		0.55	0.063	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Beryllium</b>	<b>0.66</b>		0.22	0.052	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Cadmium</b>	<b>0.46</b>	<b>B</b>	0.11	0.020	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Chromium</b>	<b>15</b>		0.55	0.27	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Cobalt</b>	<b>8.9</b>		0.28	0.072	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Copper</b>	<b>19</b>		0.55	0.15	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	5.8	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Lead</b>	<b>49</b>		0.28	0.13	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Magnesium</b>	<b>8400</b>	<b>B</b>	5.5	2.7	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	11	1.9	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Manganese</b>	<b>120</b>	<b>B</b>	0.55	0.080	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Nickel</b>	<b>24</b>		0.55	0.16	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Selenium</b>	<b>0.34</b>	<b>J B</b>	0.55	0.33	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Silver</b>	<b>3.0</b>		0.28	0.071	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Thallium</b>	<b>1.2</b>		0.55	0.28	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Vanadium</b>	<b>20</b>		0.28	0.065	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Zinc</b>	<b>110</b>	<b>B</b>	1.1	0.49	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Potassium</b>	<b>2100</b>		28	9.8	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1
<b>Sodium</b>	<b>160</b>		55	8.2	mg/Kg	☼	09/04/19 17:28	09/06/19 06:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		09/12/19 07:48	09/12/19 18:33	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		09/12/19 07:48	09/12/19 18:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/12/19 07:48	09/12/19 18:33	1
<b>Cadmium</b>	<b>0.0028</b>	<b>J</b>	0.0050	0.0020	mg/L		09/12/19 07:48	09/12/19 18:33	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169333-1

**Client Sample ID: 3247-31-B01 (0-5)**

**Lab Sample ID: 500-169333-1**

Date Collected: 08/30/19 09:10

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>200</b>		5.0	0.50	mg/L		09/12/19 07:48	09/12/19 18:33	1
Chromium	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:33	1
Cobalt	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:33	1
Copper	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:33	1
Iron	<0.20		0.40	0.20	mg/L		09/12/19 07:48	09/12/19 18:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/12/19 07:48	09/12/19 18:33	1
<b>Magnesium</b>	<b>58</b>		2.5	0.50	mg/L		09/12/19 07:48	09/12/19 18:33	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:33	1
Nickel	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:33	1
<b>Potassium</b>	<b>1.5</b>	<b>J</b>	2.5	0.50	mg/L		09/12/19 07:48	09/13/19 10:16	1
Selenium	<0.020		0.050	0.020	mg/L		09/12/19 07:48	09/12/19 18:33	1
Silver	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:33	1
Vanadium	<0.010		0.025	0.010	mg/L		09/12/19 07:48	09/12/19 18:33	1
<b>Zinc</b>	<b>0.045</b>	<b>J B ^</b>	0.50	0.020	mg/L		09/12/19 07:48	09/12/19 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.084</b>		0.050	0.010	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Beryllium</b>	<b>0.0069</b>		0.0040	0.0040	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Cadmium</b>	<b>0.0035</b>	<b>J</b>	0.0050	0.0020	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Calcium</b>	<b>16</b>		5.0	0.50	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Cobalt</b>	<b>0.043</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Copper</b>	<b>0.090</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Iron</b>	<b>210</b>		0.40	0.20	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Lead</b>	<b>0.21</b>		0.0075	0.0075	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Magnesium</b>	<b>25</b>		2.5	0.50	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Potassium</b>	<b>53</b>		2.5	0.50	mg/L		09/12/19 07:42	09/12/19 16:06	1
Selenium	<0.020		0.050	0.020	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Silver</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Vanadium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/12/19 07:42	09/12/19 16:06	1
<b>Zinc</b>	<b>0.51</b>		0.50	0.020	mg/L		09/12/19 07:42	09/12/19 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/12/19 07:48	09/12/19 17:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/12/19 07:48	09/12/19 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/12/19 07:42	09/12/19 19:30	1
<b>Thallium</b>	<b>0.0031</b>		0.0020	0.0020	mg/L		09/12/19 07:42	09/12/19 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00022</b>		0.00020	0.00020	mg/L		09/11/19 15:00	09/12/19 11:28	1

Eurofins TestAmerica, Chicago

# Client Sample Results

Client: Environmental Design International, Inc.  
 Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169333-1

**Client Sample ID: 3247-31-B01 (0-5)**

**Lab Sample ID: 500-169333-1**

Date Collected: 08/30/19 09:10

Matrix: Solid

Date Received: 08/30/19 10:55

Percent Solids: 86.5

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00030		0.00020	0.00020	mg/L		09/11/19 15:00	09/12/19 10:27	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0090	J	0.017	0.0058	mg/Kg	☼	09/05/19 13:05	09/06/19 08:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg	☼	09/10/19 10:15	09/10/19 15:25	1
pH	7.7		0.2	0.2	SU			09/06/19 15:21	1



# Accreditation/Certification Summary

Client: Environmental Design International, Inc.  
Project/Site: IDOT - PTB 174-009 - WO 064

Job ID: 500-169333-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

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
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

# TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048  
Phone: 708.534.5200 Fax: 708.534.5151



500-169333 COC

Report To: Mike Fischer (optional)  
Contact: Mike Fischer  
Company: EDI  
Address: 33 W. Monroe  
Address:  
Phone: 312-345-1400  
Fax:  
E-Mail: mfischer@envdot.com

Bill To: (optional)  
Contact:  
Company:  
Address:  
Address:  
Phone:  
Fax:  
Reference#

## Chain of Custody Record

Lab Job #: 500-169333  
Chain of Custody Number:  
Page 1 of 1  
Temperature °C of Cooler: 3.8

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
		3247-31-B01(0-5)	8/30/19	0910	5	S	VOCs	SVOCs	TAL Inorg.	TCUP/SPUD Inorg.	Total Cyanide	pH
							X	X	X	X	X	X

- Preservative Key
1. HCL, Cool to 4°
  2. H2SO4, Cool to 4°
  3. HNO3, Cool to 4°
  4. NaOH, Cool to 4°
  5. NaOH/Zn, Cool to 4°
  6. NaHSO4
  7. Cool to 4°
  8. None
  9. Other

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for      Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>MJA</u> Company: <u>EDI</u> Date: <u>8/30/19</u> Time: <u>055</u>	Received By: <u>[Signature]</u> Company: <u>TH</u> Date: <u>8/30/19</u> Time: <u>055</u>
Relinquished By: <u>[Signature]</u> Company: <u>EDI</u> Date: <u>8/30/19</u> Time: <u>055</u>	Received By: <u>[Signature]</u> Company: <u>TH</u> Date: <u>8/30/19</u> Time: <u>055</u>
Relinquished By: <u>    </u> Company: <u>    </u> Date: <u>    </u> Time: <u>    </u>	Received By: <u>    </u> Company: <u>    </u> Date: <u>    </u> Time: <u>    </u>

Lab Courier:       
Shipped:       
Hand Delivered: X

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments:

Lab Comments:

## Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-169333-1

**Login Number: 169333**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	